

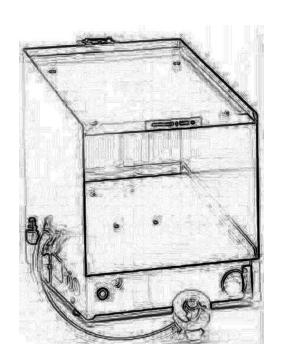
176 MITTEL DRIVE, WOOD DALE, IL 60191

7900 Bag-N-Box Pump Manual Models 7900RCA-___, 7900LA-___, 7900GMA- 7900-RCE-___, 7900LE-_, 7900GME

120 Volt Single Phase, 60 Cycle

100/120 Volt Single Phase, 50/60 Cycle

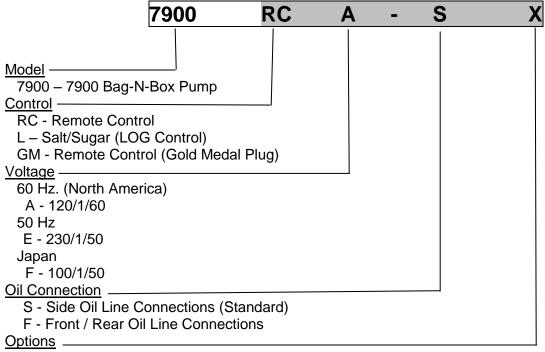
230 Volt Single Phase, 50 Cycle





READ and **UNDERSTAND** these servicing, and safety instructions before servicing this popcorn machine

Part Number Configuration: 7900 Bag-N-Box Oil Pump



- X No Custom Features
- C Custom Features
- H Heated Tubes
- EH 30" Heated Tubes
- Z Other

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 and procedures. It means **ATTENTION!** Become Alert! Your personal safety is at risk! 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 safe installation and service of your Cretors machine. The manual must be read and understood before installing, or maintaining equipment, or equivalent training must be provided.



"The employer must instruct each employee in the recognition and avoidance of unsafe conditions, regulations applicable to his work environment to control and 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 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. 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 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 last page 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:

Electrical configurations:

120 Volt, Single Phase, 60 Hz 100/120Volt, Single Phase, 50/60 Hz 230 Volt, Single Phase, 50 Hz.

B. SIZE SPECIFICATIONS:

MODEL 7900 7900 AUTOMATIC OIL PUMP MODEL

Capacity: (2) 35 lb. boxes of oil.

Electrical: 120 volt, 60 cycle, single phase, 250 watts, 2.1 amps.

Dimensions: 16-1/2"H x 18-1/4" D x 14-3/4" W

Net Weight: 30 lbs. Shipping Weight: 39 lbs.

MODEL 7900 7900 AUTOMATIC OIL PUMP MODEL

Capacity: (2) 35 lb. boxes of oil.

Electrical: 230 volt, 50 cycle, single phase, 250 watts, 1.1 amps.

Dimensions: 16-1/2"H x 18-1/4" D x 14-3/4" W

Net Weight: 30 lbs. Shipping Weight: 39 lbs.



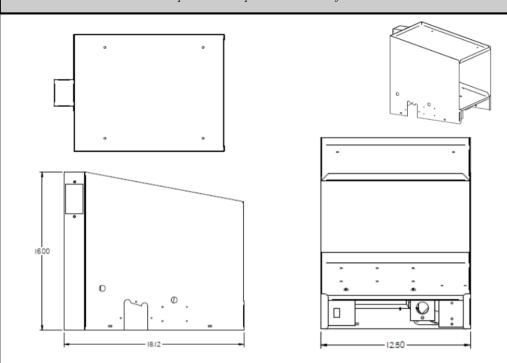
7900 Bag-In-Box Oil Pump





Part Number	Voltage	Wattage	NEMA Plug
**7900X(X)X-X	120v (60Hz); 230v (50Hz)	250	5-15

Shipping Weight: 35 lbs/ Shipping Dimensions: 22in x 18in x 19in Metric Shipping Weight: 16 kg/ Shipping Dimensions: 56cm x 44cm x 49cm *Actual dimensions available in technical drawing below **Actual part number dependant on machine features



V. PURPOSE OF MANUAL

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

This manual should be kept available to maintenance personnel.

VI. INSTALLATION INSTRUCTIONS

A. Location

Choose a location for your Cretors machine that maximizes the ease of operation and maintenance procedures. Be sure to check your local building and fire codes for location restrictions.

B. Power Supply

1. The 7900 Oil Pump is provided with either 120 volt components, which requires a 120 volt circuit for proper operation or 230V components. Check the nameplate to determine the required power supply.



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

2. C. Cretors and Company recommends dedicated circuits for the 7900 Model Cretors Oil Pump. The 7900 Model Cretors Oil Pump requires a dedicated circuit to avoid a voltage drop in the supply wiring. Check your local electrical codes regarding fuse or circuit breaker requirements.



Make certain your machine is properly grounded. Failure to do so may result in damage to your equipment or present a shock hazard.

C. Connecting Oil Pump to the Power Supply

1. Make certain that the power supply circuit breakers are in the off position.



Perform work only on de-energized circuits. Failure to do so may result in damage to your equipment or present a shock hazard.

- 2. Make certain all switches on the popcorn machine are in the off position before plugging in your 7900 Model Cretors Oil Pump.
- 3. Plug your popcorn machine and oil pump into the correct type of outlet, turn on the circuit breaker and then turn on the machine switches. If the motor groans, the receptacle in the wall may have been improperly wired. Contact an electrician.

D. Pump Installation

- 1. Make certain the pump switch on the control panel is in the off position.
- 2. Receiving a 7900 pump as a replacement for 7700 or earlier models.
 - a. The units equipped with wood bases, remove the (2) screws on back flange of oil pail tray (P/N 1349) and remove tray. This tray is not needed for 7900 model.
 - b. Replace existing plastic hose (#1223) (7" on Diplomat, 19" on President) with 20" or 24" plastic hose respectively. The existing hose clamps (#1609) and socket (#5216) are still used. If existing hose length was shortened so the socket (#5216) does not have sufficient length to connect to the plug (#5217) on the pump, replace the entire length 110" (for Merchant and Profiteer).



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

- 3. The 7900 model weighs approximately 30 lbs., so use proper lifting techniques and slide pump into cabinet. Allow at least 3" from the front edge of pump to the back side of door. This will ensure that the door, when closed, will not interfere with the properly connected bag connector.
- 4. Connect hose (#1223) simply by pushing socket (#5216) into plug (#5217) and make sure that it has snapped into place. Test engagement by pulling up on the hose near connection, fittings will not disengage.
- 5. Connect pump cord and plug to pump receptacle located on the top or on the back of the model 7900 pump.
- 6. While using proper lifting techniques, load one box into bottom tray and one on top. Following the instructions on the box itself, connect the bag connector to the Bag-N-Box nozzle. You are now ready to adjust the pump as outlined in Pump Adjustment.



Make sure that the popper heat switch is in the off position during all pump adjustments. Failure to do so may result in serious burns.



WARNING! If either shelf is not occupied by the Bag-N-Box oil, use caution around these surfaces as they will be hot! Failure to do so may result in serious burns.

E. Pump Adjustment

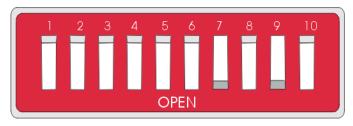
- 1. Make sure that the pump power switch and the auxiliary switch located on the popper are on.
- Check the output of the pump by placing the kettle in the dumped position and hold the
 oil measuring cup under the oil delivery tube. With the pedestal mounted units (i.e.
 Giant/President), disconnect the oil tube from the kettle and dispense the oil into the
 measuring cup.



WARNING! Never hold the oil measuring cup under the oil delivery tube if the kettle is in the up position. **The kettle maybe hot!** Failure to do so may result in serious burns.

- 3. Press the delivery button or One Pop button and wait for the pump to cycle. Dispose of the oil, and cycle the pump again.
- 4. After three cycles, the amount of oil delivered will be consistent. Check this amount with the measuring cup.
- 5. If the amount of oil is not correct, it may be adjusted. For a Salt/Sugar machine, the timer is located in the popper. To adjust the pump:
 - a. Turn off the pump switch.
 - b. To set the amount of oil being delivered:
 - i) Remove the snap out plug on the front side of the bottom cover to expose the timer.
 - ii) Check to make sure the timer has good contact by pushing down lightly onto the timer base, making certain not to push any of the switches.
 - iii) Switches 1 through 10 are each assigned a certain amount of seconds of run time. Each successive switch doubles the run time for the switch before it. The amount of run time is written at the top, along the Open/Off line (i.e. 1,2,4,8, etc.)
 - iv) The switch must be in the Up position along the Open/Off line for the run time to apply. For example, to make the pump run for three seconds, the timer would have the switch corresponding to 1 on the Open/Off line up along with the switch corresponding to 2 on the Open/Off line.

To turn the dip switches ON the dip switch needs to be pressed down to the number side opposite of the open side. Open is off.



Switch #1 = 1 seconds

#2 = 2 seconds

#3 = 4 seconds

#4 = 8 seconds

#5 = 16 seconds

Example: If you turn #3 and #4 on, the time delay will be 12 seconds.

Machine PT14 Recommended Amount of Oil 4.5 oz. Set Timer to Number of Seconds (Your results may vary.) 3 seconds

MR16	5.5 oz.	4 seconds
DI20	6.5 oz.	5 seconds
PR20	6.5 oz.	5 seconds
EG20	6.5 oz.	5 seconds
DI32	10.5 oz.	9 seconds
PR32	10.5 oz.	9 seconds
EG32	10.5 oz.	9 seconds
GG32	10.5 oz.	9 seconds
EG48	16 oz.	12 seconds
EG60	20 oz.	16 seconds

- c. Turn on the pump switch and re-check the oil output using steps 1-5 in the Pump Adjustment Section.
- d. Install snap out plug.

F. Bag-N-Box Connector

- 1. Prepare the box for use by breaking the perforated opening on the box and bending back the corrugated tab. Reach inside and grasp the bag spout. Place the ring of the spout into the box slot and lock it into place with the corrugated tab.
 - a. Place the Bag-N-Box in the appropriate shelves. Next remove the travel cap from the spout. The travel cap prevents the dirt and dust from coming in contact with the internal slider for sanitary hook-up.
 - b. Snap the locking plate over the bag spout. The tapered probe on the connector is then pushed into the bag spout and it locks into place. This bi-directional locking action does two things. One, it eliminates any possibility of accidental disconnect, giving the user a "fool proof" positive connection and two, it opens the channel allowing product to follow.
 - c. When the Bag-N-Box container is empty, disengage the connector by snapping the connector probe into the out position and remove it from the bag spout. This disconnects and reseals the bag. All product contact surfaces are protected ensuring a sanitary situation.
 - d. Repeat steps a-c to properly re-connect Bag-N-Box to the pump.

NOTE: Prior to each attachment of the Bag-N-Box connector, ensure that the probe has not been contaminated. If this has occurred, clean the connector as described in the **Sanitation Instructions.**

VIII. OPERATING INSTRUCTIONS



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



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



Always turn the kettle heat switch off when not popping corn. Failure to do so will cause oil to stain the kettle, possibly resulting in an unsanitary condition. It may also cause a "flash" fire if oil is added to a kettle left unattended with the heat on, resulting in serious burns or death.

- A. Operate only after "Installation Instructions" in the Service Manual have been followed.
- B. To operate your Cretors 7900 oil pump:
 - 1. Turn on the pump switch, located on the popper, to the on position.
 - 2. Pre-heat the popping oil until liquid, if necessary.
 - 3. Push the oil pump or the One-Pop button to dispense oil. If too much or too little oil is being dispensed, see "Pump Adjustment" in the Service Manual.
 - 4. Exchange boxes by disconnecting bag connector from bottom and connecting to top.
 - 5. Follow the recommended sanitation procedures.

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 or scalds.

The 7900 pump is designed as a closed system and should remain aseptic.

If you believe your pump system is contaminated, then you will need to clean the system.

The pump is cleaned using the following steps:

- 1. Remove the Bag-N-Box connector.
- 2. Place the end of the oil tube into hot soapy water in a pail.
- 3. Cycle pump sufficiently to flush system. Be sure to have a container to catch the water at the discharge tube near the kettle.
- 4. Move the oil tube to clean hot water and cycle pump to flush hot soapy water from the system.
- 5. **IMPORTANT:** When system is clean, you must then cycle the system with oil to prevent any damage to the pump. **Never leave the pump wet with water only.** Mineral oil may be used.

To Clean Bag-N-Box Connector:

- 1. Remove from tubing.
- 2. Remove probe body from clamp by spreading clamp body tabs and sliding probe body out.
- 3. Remove probe spout adapter from probe body by unscrewing stem from probe body.
- 4. Remove seal body and spring from stem and nut assembly by unsnapping seal body from stem.
- 5. Clean all parts in accordance to NSF and local requirements (hot, soapy water, and rinse). Do not use petroleum base cleaning agents or abrasive cleaners. Damage to sealing surfaces may occur and jeopardize the sanitary integrity of the connector.
- 6. Inspect the three "O" rings for damage or imbedded particles. Replace as required.
- 7. Reassemble by reversing steps 1-4.

Sanitation of your popcorn machine and oil pump is imperative for production of an appetizing product. Failure to follow proper sanitation procedures for food contact surfaces or usage of contaminated ingredients (salt, oil, seasonings) could result in poor product quality and may cause illness to your customers.

Your Cretors oil pump is National Sanitation Foundation (NSF) listed, and can be easily cleaned to assure a high quality product. Use pure ingredients, always emphasize machine sanitation, and follow the sanitation procedures outlined in this manual to protect the welfare of your customers.

X. TROUBLE SHOOTING



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



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

PROBLEM	POSSIBLE CAUSE	ACTION
Nothing works.	Is the pump plugged in?	Plug in.
	Is the switch turned on?	Turn on the switch on the popper.
Pump not heating.	Check element.	Use an ammeter to diagnose.
		Replace if bad.
Motor hums, but will not	Debris in pump.	Clean out pump.
turn.	The motor burned out, because it	Replace motor. Check for the
	cannot turn.	correct alignment between the
		motor and the pump.
Pump runs all the time.	Timer set incorrectly.	Reset. (See Pump Adjustment)
	Bad timer.	Replace timer.
Motor runs, but does not	Check for oil in the box.	Exchange.
dispense oil.	Pump sucking plastic bag, not oil	Move connector.
	by the nozzle.	
	Is the line clogged?	Assure lines do not have hardened
		oil blocking the line and heated
		lines are warm
Amount of oil delivered is	Check oil tubing for leakage and	Fix or replace clamps on tubing.
not consistent.	for restrictions.	
	Bag-N-box connector improperly	Re-install connector.
	installed.	
	Oil is not in liquid state.	Wait till oil is liquid.

Do not attempt to operate pump if the Bag-N-Box is in the upright position.

This manual is filled with time-saving and money-saving information regarding your Cretors Bag-N-Box Oil Pump. 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.

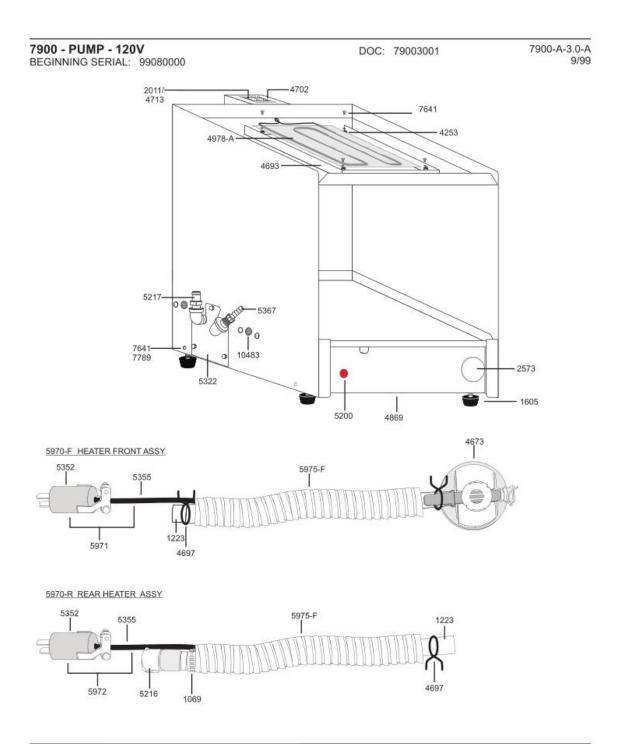
Additional copies of this manual can be obtained from C. Cretors and Company at the address listed below. Please provide model and serial number when requesting additional copies of this manual. There will be a nominal charge for additional copies.

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 Cretors 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 (773) 588-1690, (800) 228-1885, FAX (847) 616-6970



7900 - PUMP - 120VBEGINNING SERIAL: 99080000

DOC: 79003001

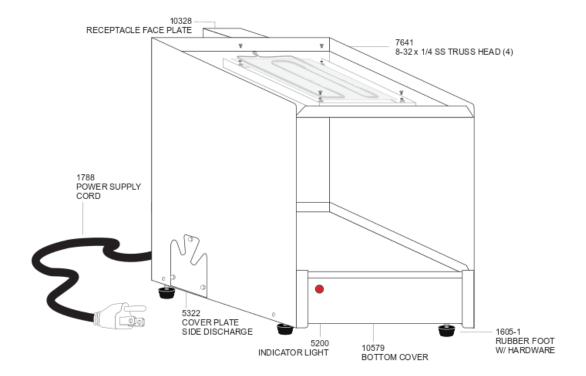
7900-A-3,0-A

1605	RUBBER FO	OT W/ HARDWARE		
2011	RECEPTACL	RECEPTACLE		
2573	HOLE COVE	HOLE COVER "O" RING		
4253	8-32 x 1/2 SF	ACER HEX		
4693	ELEMENT C	ORNER		
4702	TOP ENDWI	RE BOX		
4713	RECEPTACL	E-GOLD METAL		
4869	воттом со	VER		
4978	HEAT PAD			
5200	INDICATOR I	LIGHT		
5217	PLUG - QUIC	CK DISCONNECT		
5322	COVER PLA	TE SIDE DISCHARGE		
5367	HOLE BARB			
5970-F	HEATED TUBE	ASSEMBLY FRONT (Parts Also Sold Separately)		
	5352 PLU	G		
	5355 HEA	TER - ROPE 18"		
	5971 HEA	TER FRONT ASSEMBLY		
	5975-F SLEE	EVE - STAINLESS STEEL - FRONT		
	1223 TUB	ING - NALGENE - CLEAR PER FOOT		
5970-R	HEAT TUBE A	SSEMBLY REAR (Parts Also Sold Separately)		
	1069 HOS	SE CLAMP		
	5352 PLU	IG		
	5355 HEA	TER - ROPE 18"		
	5972 REA	AR HEATER ASSEMBLY		
	5975-F SLE	EVE - STAINLESS STEEL - REAR		
	1223 TUE	BING - NALGENE - CLEAR PER FOOT		
7641	8-32 x 1/4 SS	TRUSS HEAD		
7789	#8 STARWAS	SHER		
10483	RECEPTACLE ASSY			

7904 WARMER - 120VBEGINNING SERIAL: 98074678

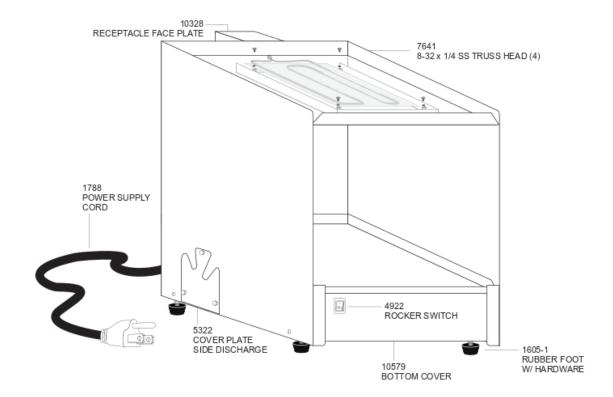
DOC: 79043001

7904-A-3.1-A
9/98



C. CRETORS AND COMPANY

7904 WARMER - 100-120V DOC: 79043002 7904-A-3.1-B BEGINNING SERIAL: 06104678 10/06

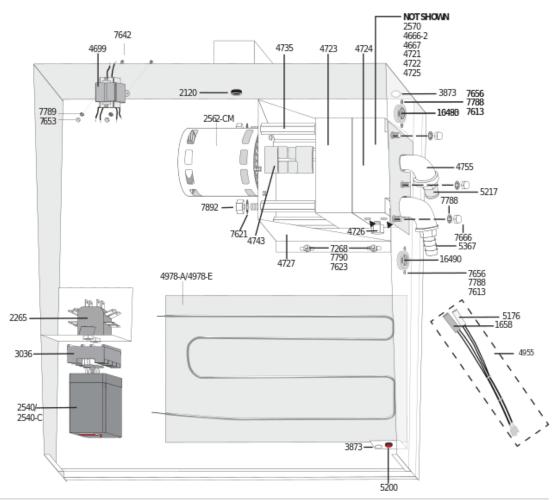


7900 BAG-N-BOX PUMP 120V/230V-HEATED

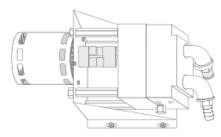
DOC: 79003004

7900-A-3.1-B 12/18

BOTTOM VIEW BEGINNING SERIAL: 0504



4750 - DUAL CDC PUMP COMPONENTS ASSEMBLED



BOTTOM \	G-N-BOX PUMP 120V - HEATED //EW G SERIAL: 0504	DOC:	79003004	7900-A-3.1-B 12/18
1658	HEATER - TUBULAR			
2120	BUSHING - HEYCO			
2265	TERMINAL BLOCK 2-PIN			
2540-C	TIMER PLUG-IN - 120V			
3036	RELAY BAS E - 8 PIN			
3873	HOLE COVER 5/8			
4699	TRANSFORMER 40VA - 120/208/240 CLAS	S 2 - 240 V OUTPUT		
4723	PUMP BODY W/ SEAL			
4724	VALVE BODY			
4726	STOP PLUG & PIN			
4727	BRACKET			
4735	SPACER			
4734	MOTOR (8D262)			
2562-CM	COUPLING			
4755	ELBOW - 90 DEGREE			
4750	CDC PUMP COMPONENTS			
4978-A/49	78-E HEAT PAD-120V			
5200	INDICATOR LIGHT			
5217	PLUG-QUICK DISCONNECT			
5176	THERMOSTAT - TYPE J			
5367	HOSE BARB			
7268	10-32 x 1/2 SLTD TR HD			
7613	6-32 x 5/16 x 7/64 HEX NUT			
7621	1/4" INTERNAL TOOTH LOCKWASHER			
7623	10-32 HEX NUT			
7642	8-32 X 3/8 SS TRUSS HEAD			
7653	8-32 HEX NUT			
7656	6-32 x 3/8 BINDING HEAD			
7666	6-32 CAP NUT			
7788	#6 LOCKWASHER			
7789	#8 STAR LOCKWASHER			
7790	#1.0 STAR LOCKWASHER			
7892	1/4-20" x 11/64" HEAVY J AM NUT			
	RECEPTACLE ASSEMBLY			

NOT SHOWN

2570 PUMP IDLER GEAR (SHORT)

4666-2 SHUTTLE 4667 SPRING 4721 "O" RING 4722 SEAL 4725 GEAR & SHAFT 4721 ORING

C. CRETORS AND COMPANY

176 MITTEL DRIVE

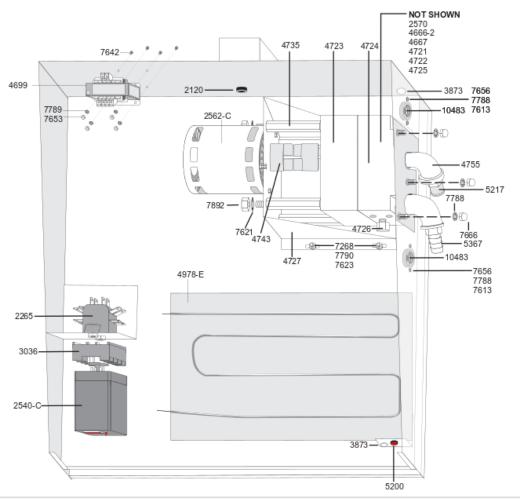
WOOD DALE, IL 60191 PHONE: (847)616-6900, (800)228-1885, FAX: (847)616-6971 WEB SITE: http://www.cretors.com Email: postmaster @cretors.com

7900 BAG-N-BOX PUMP 240V - HEATED

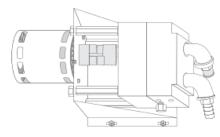
BOTTOM VIEW

BEGINNING SERIAL 0504XXXX

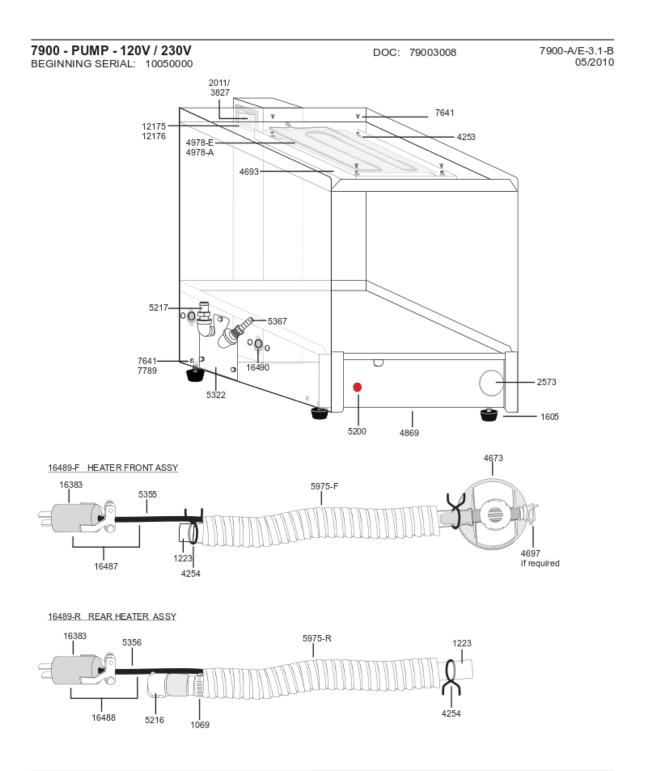
DOC: 79003006 BIB-E-3.1-A 03/05



4750-E CDC PUMP COMPONENTS ASSEMBLED



BOTTOM		DOC: 79003006	BIB-E-3.1-A 03/05
BEGINNI	ING SERIAL 0504XXXX		
2120	BUSHING - HEYCO		
2265	TERMINAL BLOCK 2-PIN		
2540-C	TIMER PLUG-IN - 230V		
2562-C	MOTOR		
3036	RELAY BASE - 8 PIN		
3873	HOLE COVER 5/8		
4699	TRANSFORMER-40W		
4723	PUMP BODY W/ SEAL		
4724	VALVE BODY		
4726	STOP PLUG & PIN		
4727	BRACKET		
4735	SPACER		
4743	COUPLING		
4755	ELBOW - 90 DEGREE		
4750-E	CDC PUMP COMPONENTS		
4978-E	HEAT PAD - 240V		
5200	INDICATOR LIGHT		
5217	PLUG-QUICK DISCONNECT		
5367	HOSE BARB		
7613	6-32 x 5/16 x 7/64 HEX NUT		
7621	1/4" INTERNAL TOOTH LOCKWASHER		
7623	10-32 HEX NUT		
7642	8-32 X 3/8 SS TRUSS HEAD		
7653	8-32 HEX NUT		
7268	10-32 x 1/2 SLTD TR HD		
7656	6-32 x 3/8 BINDING HEAD		
7666	6-32 CAP NUT		
7788	#6 LOCKWASHER		
7789	#8 STAR LOCKWASHER		
7790	#10 STAR LOCKWASHER		
7892	1/4-20" x 11/64" HEAVY JAM NUT		
10483	RECEPTACLE ASSEMBLY		
NOTSH	OWN		
2570	PUMP IDLER GEAR (SHORT)		
4666-2	SHUTTLE		
4667	SPRING		
4722	SEAL		
4725	GEAR & SHAFT		
4721	"O" RING		
4722	SEAL		



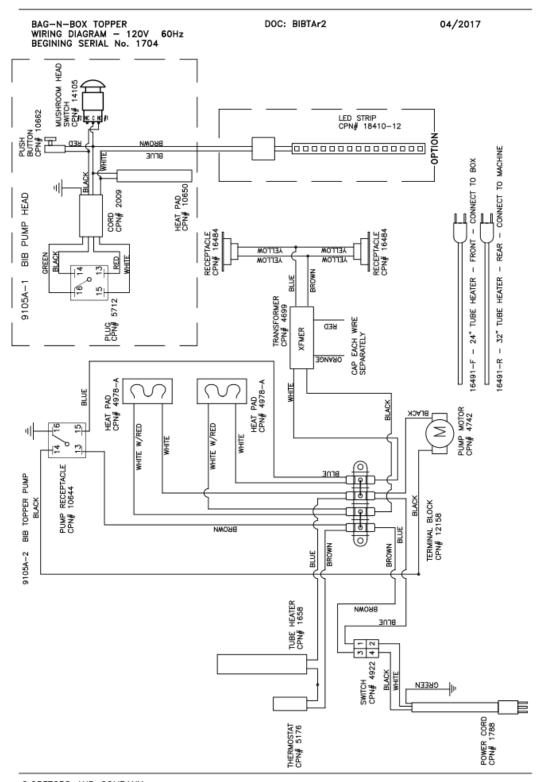
7900 - PUMP - 120V / 230VBEGINNING SERIAL: 10050000

DOC: 79003008

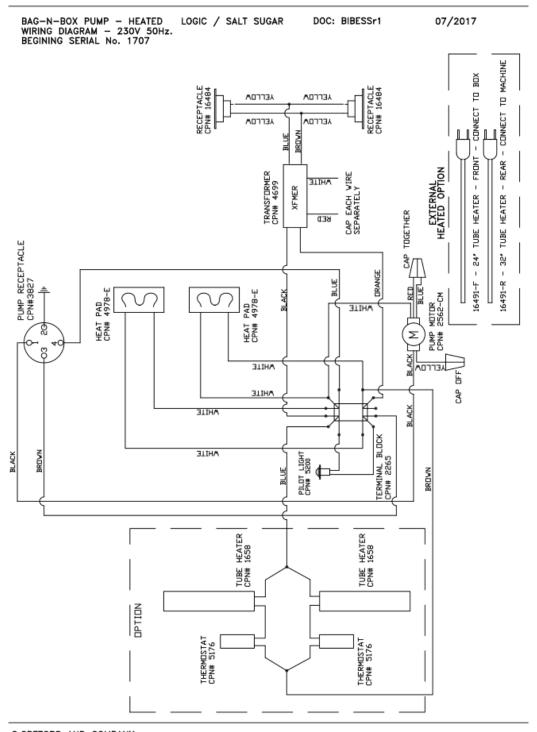
7900-A/E-3.1-B
05/2010

1605	RUBBE	R FOOT W/ HARDWARE
2011	RECEP	TACLE-120v
2573	HOLE (COVER "O" RING
3827	RECEP	TACLE-230v
4253	8-32 x 1	/2 SPACER HEX
4254	CLAMP	-HOSE-SELF TIGHTENING
4693	ELEME	NT COVER
4697	HOSE (CLAMP-SELF TIGHTENING-1/2
4713	RECEP	TACLE-GOLD METAL
4869	вотто	M COVER
4978-A	HEAT P	AD-120V
4978-E	HEAT P	AD-230V
5200	INDICA	TOR LIGHT
5217	PLUG -	QUICK DISCONNECT
5322	COVER	PLATE SIDE DISCHARGE
5367	HOLE	BARB
16489-F	HEATE	D TUBE ASSEMBLY FRONT (Parts Also Sold Separately)
	16483	PLUG
	5355	HEATER - ROPE 18"
	16487	HEATER FRONT ASSEMBLY
	5975-F	SLEEVE - STAINLESS STEEL - FRONT
	1223	TUBING - NALGENE - CLEAR PER FOOT
16489-R	HEAT TU	BE ASSEMBLY REAR (Parts Also Sold Separately)
	1069	HOSE CLAMP
	16483	PLUG
	5356	HEATER - ROPE 26"
	16488	HEATER REAR ASSEMBLY
	5975-R	SLEEVE - STAINLESS STEEL - REAR
	1223	TUBING - NALGENE - CLEAR PER FOOT
7641	8-32 x 1	/4 SS TRUSS HEAD
7789	#8 STA	R WASHER
16490	RECEPT	TACLE ASSY
12175	CONNE	CTOR PLATE 120V- 7900 PUMP
12176	CONNE	CTOR PLATE 230V- 7900 PUMP

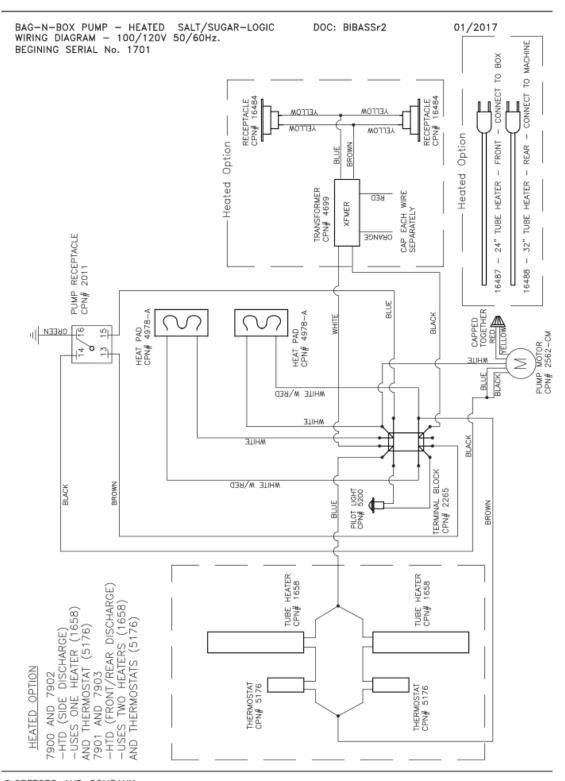
C. CRETORS AND COMPANY



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



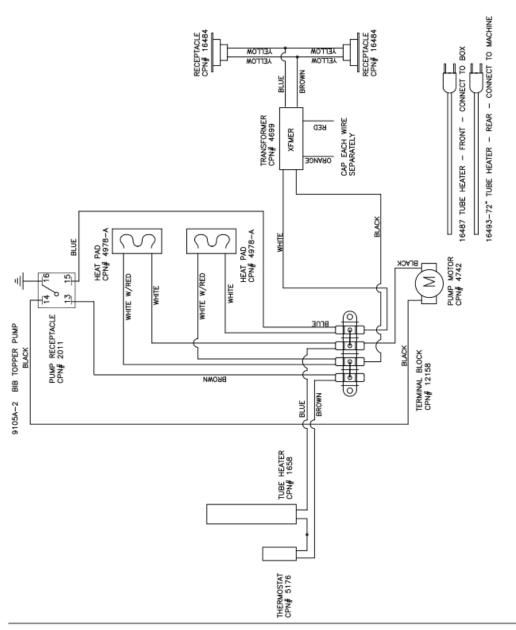
C.CRETORS AND COMPANY
3243 NORTH CALIFORNIA AVENUE
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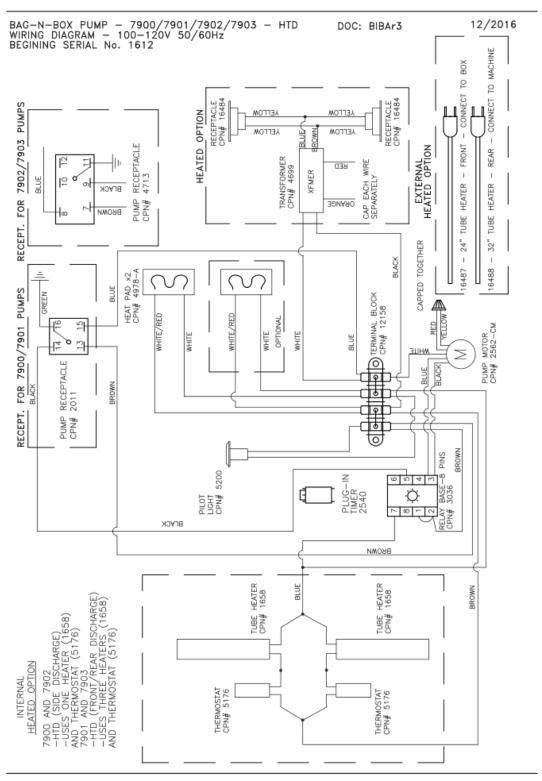
C.CRETGRS AND COMPANY
170 MITTEL DRIVE
WOOD DALE, ILLINOIS 60191
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WEB SITE: http://www.cretors.com Email: postmaster@cretors.com

BAG-N-BOX TOPPER / SELF SERVE WIRING DIAGRAM - 120V 60Hz BEGINING SERIAL No. 1703 DOC: BIBTASFSVr1

03/2017



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OIL PUMP MANUAL OPERATION & SERVICE FOR MODELS 7700 & 7900

C. CRETORS AND COMPANY



READ and **UNDERSTAND** these operating and safety instructions before operating this machine

176 MITTEL DRIVE WOOD DALE, IL 60191

PHONE: (847)616-6900, (800)228-1885, FAX(847) 616-6970

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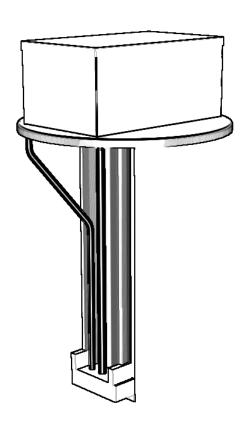


176 MITTEL DRIVE, WOOD DALE, IL 60191

7700 PUMP MANUAL

120Volt, Single Phase, 50 Hz

230 Volt, Single Phase, 50/60 Hz





READ and **UNDERSTAND** these operating and safety instructions before operating this machine

SAFETY FIRST



The information in this manual is essential for the safe installation and maintenance of your Cretors oil pumps. The manual must be read and understood before installing, operating or maintaining this 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 very. 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.

I INTRODUCTION

This manual contains information regarding your Cretors oil pumps. 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 dealer from whom you purchased your machine for assistance; and, if there are any additional questions, feel free to contact our Customer Service Department at 800/228-1885. Always have the serial number of your machine available to assist in obtaining the correct information.

II 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 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.



III PURPOSE OF MANUAL



This instruction manual is intended to familiarize owners with the operation and safety procedures associated with your Cretors oil pumps.



This manual should be kept available to operating and maintenance personnel.



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

IV PRODUCT IDENTIFICATION

CRETORS OIL PUMPS:

MODEL	7700 / 7700 RCA-X AUTOMATIC OIL PUMP MODEL
Capacity:	To be used on a 50 lb. Pail of oil
Electrical:	120 Volt, Single Phase, 60 Cycle, 700 Watts, 5.8 amps
Dimensions:	14-1/2"D x 14-1/2"W x 25"H(shipping)
Net Weight:	12 lbs.
Shipping Weight:	20 lbs.
MODEL	7700-SC / 7700SCA-X AUTOMATIC OIL PUMP MODEL
Capacity:	To be used on a 50 lb. Pail of oil
Electrical:	120 Volt, Single Phase, 60 Cycle, 700 Watts, 5.8 amps
Dimensions:	14-1/2"D x 14-1/2"W x 25"H (shipping)
Net Weight:	12 lbs.
Shipping Weight:	20 lbs.
MODEL	7700-E / 7700RCE-X AUTOMATIC OIL PUMP MODEL
Capacity:	To be used on a 50 lb. Pail of oil
Electrical:	230 Volts, 50/60 cycle, single phase, 700 Watts, 3.1 amps
Dimensions:	14-1/2"D x 14-1/2"W x 25"H (shipping)
Net Weight:	12 lbs.
Shipping Weight:	20 lbs.
MODEL	FEOD COLE / FEODOCOLE V. ALVEONA ATLACOLE DUNAN
MODEL	7700-SC-E / 7700SCE-X AUTOMATIC OIL PUMP MODEL
Capacity:	To be used on a 50 lb. Pail of oil
Electrical:	230 Volts, 50/60 cycle, single phase, 700 Watts, 3.1 amps
Dimensions:	14-1/2"D x 14-1/2"W x 25"H (shipping)
Net Weight:	12 lbs.
Shipping Weight:	20 lbs.

MODEL	7700-L / 7700SSA-X AUTOMATIC LOGIC/ SALT/SUGAR OIL PUMP MODEL	
Capacity:	To be used on a 50 lb. Pail of oil	
Electrical:	120 Volt, Single Phase, 60 Cycle, 700 Watts, 5.8 amps	
Dimensions:	14-1/2"D x 14-1/2"W x 25"H (shipping)	
Net Weight:	12 lbs.	
Shipping Weight:	20 lbs.	
MODEL	7700-E-L/7700SSE-X AUTOMATIC LOGIC/	
	SALT/SUGAR OIL PUMP MODEL	
Capacity:	To be used on a 50 lb. Pail of oil	
Capacity: Electrical:	,	
1 2	To be used on a 50 lb. Pail of oil	
Electrical:	To be used on a 50 lb. Pail of oil 230 Volts, 50/60 cycle, single phase, 700 Watts, 3.1 amps	



7700 Pail Oil Pump



Part Number	Voltage	Wattage	NEMA Plug			
**7700XXX-X	120v (60Hz); 230v (50Hz)	700				
Metric Shipp *A	Shipping Weight: 20 lbs/ Shipping Dimensions: 25in x 15in x 15in Metric Shipping Weight: 9 kg/ Shipping Dimensions: 64cm x 39cm x 39cm *Actual dimensions available in technical drawing below **Actual part number dependant on machine features					
PUMP DRIVE SHAFT OIL DELIVERY TUBE	[21,0 [53,3] [64,6]		PUMP COVER PLATE ST ALUMINUM ATING ELEMENT			

Theory and Observations of Popcorn Machine Operation

1. 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.



2. 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 is controlled using a thermostat located inside the kettle to maintain the kettle at an operating temperature between 380-420°F.

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

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



- 4. 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.
- 5. 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.
- 6. Your 7700 model Cretors oil pump, which when properly adjusted, automatically delivers the proper amount of oil to the popping kettle.
- 7. A Cretors Hot rod is available to assist in the melting of solidified oil.

VI CONTROL SWITCH

Time Heat Switch -turns on the heat element

Indicator light -indicates operation of the heat element
Push button -activates timer and motor to dispense oil
Power switch -turns on the power to oil pump on self-

contained unit

VII INSTALLATION INSTRUCTIONS

A. Location

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

B. Power Supply

Determine the required power supply.



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



C. Cretors & Co. recommends dedicated circuits for popcorn machines. The 7700-SC model pump requires a 15 amp circuit. Check your local electrical codes regarding cut-off requirements.



Make certain your popcorn machine and oil pump is properly grounded. Failure to do so may result in damage to your equipment or present a shock hazard.

C. Connecting oil pump to power source



Make certain that power supply circuit breakers are in the off position. Make certain all switches on the machine are in the off position before plugging in your 7700 model Cretors oil pumps.



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

D. Plug your machine and oil pump into the correct type of outlet, turn on the circuit breaker and then turn on the machine switches. If the motor groans, the receptacle in the 8 108 485 115 been improperly wired. Contact an Electrician.

Make certain all switches are in the off position before plugging in your Cretors popcorn machine and oil pump.

E. Pump Installation

Cretors oil pump and Hot Rod are intended for use in standard steel pails only. The following instructions assume the presence of a Deluxe or Economy base.

1. Make certain the pump switch on the control panel is in the OFF position.

2. Inserting the pump into the pail

Place the pump on top of the oil and center in the pail. If the oil is solid, the pump can be rotated clockwise/counterclockwise 90°, and the metal "blade" on the bottom of the pump will cut into the hard oil. Connect the power supply cord to the pump. The special connector will only plug in one way and it may be necessary to rotate it in order to insert it completely.

Turn on the auxiliary and pump switches and set the time heat switch to 20 or 30 minutes and allow the pump to melt itself into the oil. Proceed to step 3.



Do not overheat the oil in the pail. Once the oil is liquefied, it is not necessary to continue heating the oil. If the heat timer is continually restarted, the oil will become too hot and damage the oil tubing, becoming a source of leaks, and the hot pail a source of burns.



If any oil should spill or leak, be sure to promptly and thoroughly clean the exposed area. Failure to do so may result in a slipping hazard resulting in serious injury or death.

- 3. Connect the pump to the oil delivery tube by pushing the quick connect socket at the end of the delivery hose, onto the quick disconnect plug mounted on the support cover. When the plug is fully inserted, the spring will snap into place and hold the connector securely.
- 4. Make certain the oil delivery hose contains no low spots. Oil may solidify in such low spots and clog the hose.

F. Pump Adjustment



Make sure that the popper heat switch is off during pump adjustments. This is to avoid touching a hot kettle, which may result in serious burns.

1. To check the output adjustment, place the kettle in the dump position and hold the oil measure cup under the oil delivery tube.



Never hold the oil measure cup under the oil delivery tube if the kettle is hot. This may result in serious burns or injuries.

2. Press the delivery button and wait for the pump to cycle. Dispose of the oil, and cycle the pump again. To obtain accurate readings, let the oil drain back to the pail as it would between popping. Observe the oil in the tube to confirm that the oil has drained back to the pail.

3. After three cycles, the amount of delivered will be consistent. Check this amount with the measuring cup. Below is a good starting point to set the timer for an approximate amount of oil to be delivered. Each machine may vary.

AMOUNT OF OIL	SET TIMER TO "X" SECONDS
4.5 oz.	3 seconds
5.5 oz.	4 seconds
7.5 oz.	5 seconds
11 oz.	9 seconds
16 oz.	12 seconds
20 oz.	16 seconds
	4.5 oz. 5.5 oz. 7.5 oz. 11 oz. 16 oz.

^{*}Recommended pump timer settings. Machines may differ slightly.

- 4. If the amount of oil is not correct, it may be adjusted. To adjust the pump:
 - a. Turn off the pump switch
 - b. Put the pail step in place
 - c. Disconnect oil hose
 - d. Move pail out of cabinet onto pail step. (Use a slight lifting and pulling motion)



Make sure you brace the pail step against the cabinet to avoid sliding it off the base of the cabinet when pulling the pail across it. Use proper moving techniques to avoid injury to back.

- e. To set the oil quantity delivery:
 - Remove the snap out plug on top of the switch box, which is on the top of the pump, to expose the timer.
 - Check to make sure the timer has good contact by pushing down lightly on timer, making certain not to push any of the switches.
 - Switches 1 through 10 are each assigned a certain amount of seconds of delay time. Each successive switch is double the amount of delay time for the switch before it. The amounts of delay time are written at the top, along the "OPEN"/"OFF" line (i.e. 1,2,4,8, etc).
 - The switch must be in the UP position along the "OPEN"/"OFF" line for the delay time to apply. An example of this for three seconds would have the switch corresponding to the 1 on the "OPEN"/"OFF" line up along with the switch corresponding to the 2 on the "OPEN"/"OFF" line.
 - For Salt/sugar pumps, the oil time is adjusted through the timers located in the popper the same way.
 - For Logic pumps, the oil time is adjusted through the Logic board. Please refer to your machine manual.

To turn the dip switches ON the dip switch needs to be pressed down to the number side opposite of the open side.



Switch #1 = 1 seconds

#2 = 2 seconds

#3 = 4 seconds

#4 = 8 seconds

#5 = 16 seconds

Example: If you turn #3 and #4 on, the time delay will be 12 seconds.

f. Install snap out plug (which was removed in first step in section e).



Move pail back into cabinet. Use proper moving techniques to avoid injury to back.

- g. Connect oil hose by snapping in place.
- h. Remove pail step and place in bottom of cabinet for easy access in future.
- i. Turn on the pump switch and re-check the oil output using steps 1thru 4 in the Pump Adjustment section.

VIII OPERATING INSTRUCTIONS



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



Operate your popcorn machine and oil pump only if it is in sanitary condition. Failure to do so may result in illness to your customers.



Always turn off the kettle heat switch when no popping corn. Failure to do so will cause oil to stain the kettle, possibly resulting in an unsanitary condition. It may also cause a "flash" fire if oil is added to a kettle left unattended with the heat on, resulting in serious burns or death.

To operate your Cretors 7700 oil pump:

1. Turn on pump switch



NOTE: Avoid contact with the kettle when adding corn or salt. 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.

- 2. Push the oil pump button which will provide the correct amount of oil based on previously setting and testing the timer.
- 3. When the oil bucket is empty, insert the oil pump into a new bucket as described in the Installation Section.



Follow the recommended sanitation procedures.

IX TROUBLE SHOOTING AND SERVICE INSTRUCTIONS



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

1. Nothing works:

QUESTION: Is the pump plugged in? QUESTION: Is the machine plugged in?

- 2. Pump not heating:
 - a. No indicator light or heat check heat timer
 - b. Indicator light, but no heat check element
- 3. Heat will not go off:

Bad heat timer - replace.

- 4. Motor hums, but will not turn:
 - a. Hard oil melt oil
 - b. Drive shaft does not turn freely may have been dropped on element causing discharge tube to jam into pump gears clear jam
 - c. Motor bad replace
- 5. Pump runs all the time:
 - a. Timer set incorrectly rest (See Pump Adjustment)

b. Bad timer - replace

6. Solid oil in pail:

Melt the oil in the pail by turning the time heat switch (2012) on the pump. For Logic, press "Oil Heat" button on Logic board. Make sure Logic is set for 7700 Pump.

- 7. Motor runs, but does not dispense oil:
 - a. Check for oil in the pail refill
 - b. Discharge tube (2566) pulled out of pump body
 - c. Solid oil in line the oil in the tube may be melted with a rag soaked in hot water and wrapped around tube. A hair dryer may also be used to heat the tube

X 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 or scalds.

The pump is most easily cleaned by using two empty popping oil pails or buckets that have been thoroughly cleaned of oil. The cleaning procedure is:

- 1. Fill one pail ½ full of hot water and mix in ½ package of CKC (Cretors Kettle Cleaner).
- 2. Put the pump on the pail and turn on the heat timer to 20 minutes and leave until the water is hot.
- 3. Unplug the pump and hold the pump over the pail. Clean the outside of the pump and heating element. Do not immerse the pump motor or get the top plate and motor wet. Put the pump on the pail again, and reconnect the electrical power supply and oil line.
- 4. Put the kettle in the dump position, and place a container under the oil discharge tube to catch the cleaning water.
- 5. Cycle the pump several times catching the cleaning water in the empty container.
- 6. Disconnect the pump. Take the pump to a sink and thoroughly rinse the pump and heat element.



Do not get the top of the pump wet. Electrical shorts and a shock hazard, which can cause injury, from the result of the wires inside the top of the pump getting wet.

7. Take a second pail and fill it with clean water. If only one pail is available, empty the soapy water from the pail, rinse it completely and fill it with clean water.

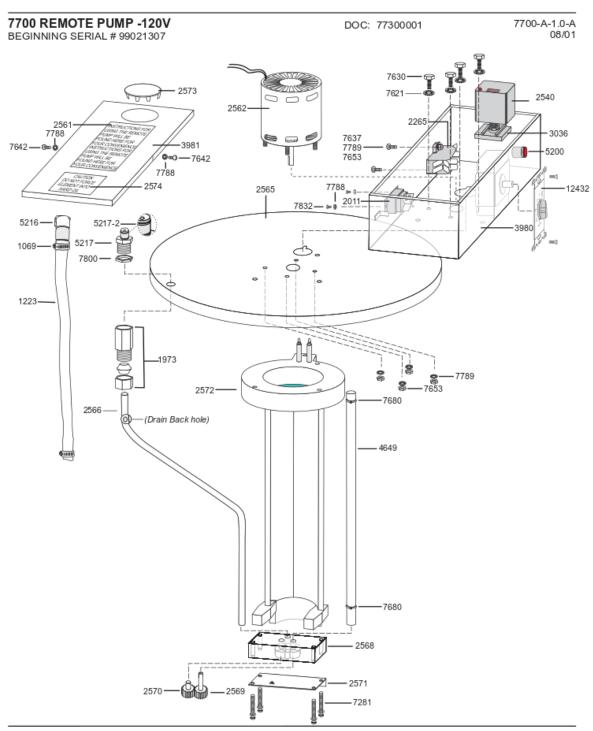
- 8. Reconnect the pump, and cycle it several times to thoroughly rinse the inside of the pump and oil lines.
- 9. Allow the pump and oil lines to drain.
- 10. After draining pump and oil lines, reconnect the pump and cycle oil once to prevent rust in the pump.

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

If you have any questions, feel free to contact our Customer Service at 800/228-1885.

Additional copies of this manual can be obtained from Customer Service.

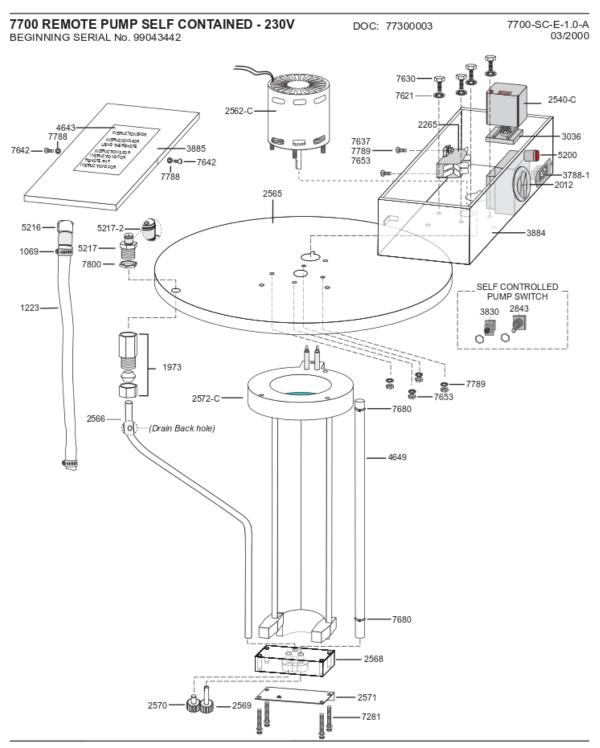
Cretors warranties this machine to be free of defects in parts, materials and workmanship for two years. Please fill out and return the registration card to activate your warranty. If you have questions concerning the warranty, please contact Customer Service at 800/228-1885.



C. CRETORS AND COMPANY

	IOTE PUMP -120V SERIAL # 99021307		DOC: 77300001	7700-A-1.0-A 08/01
1069	CLAMP - HOSE	7800	1/4" NPT HEX THIN NUT	
1223	TUBING - NALGENE SOLD PER FOOT	7832	8-32 x 1/4 BINDING HEAL)
1973	1/4" NPT TO 3/8" TUBE SS	12432	SWITCH - TIME HEAT	
2011	PUMP RECEPTACLE			
2540	TIMER PLUG IN - 120V			
2265	TERMINAL BLOCK-2 PIN			
2561	DECAL-PUMP INSTRUCTIONS			
2562	PUMP MOTOR - 120V			
2562-C	PUMP MOTOR - 230V			
2565	PUMP SUPPORT COVER			
2566	OIL INLET TUBE			
2568	PUMP BODY			
2569	PUMP DRIVE GEAR (LONG)			
2570	PUMP IDLER GEAR (SHORT)			
2571	PUMP BODY COVER			
2572	PUMP HEAT ELEMENT - 120V			
2573	HOLE COVER W/ "O" RING			
2574	CAUTION-DECAL			
3036	RELAY BASE - 8PIN			
3980	PUMP BOX - 120V			
3981	PUMP BOX COVER 120V			
4649	PUMP SHAFT			
5200	INDICATOR LIGHT			
5216	QUICK CONNECT SOCKET			
5217	QUICK DISCONNECT PLUG			
5217-2	"O" RING ONLY			
7281	8-32 x 1-1/2 THUMB SCREW			
7621	1/4 INTERNAL TOOTH LOCKWASHER			
7630	1/4 x 20 x 1/2 HEX BOLT			
7637	8-32 x 1/2 SS TRUSS HEAD			
7642	8-32 x 3/8 SS TRUSS HEAD			
7653	8-32 HEX NUT			
7680	1/8 x 3/4 'T' COTTER PIN			
7788	#6 LOCKWASHER			
7789	#8 STARLOCKWASHER			

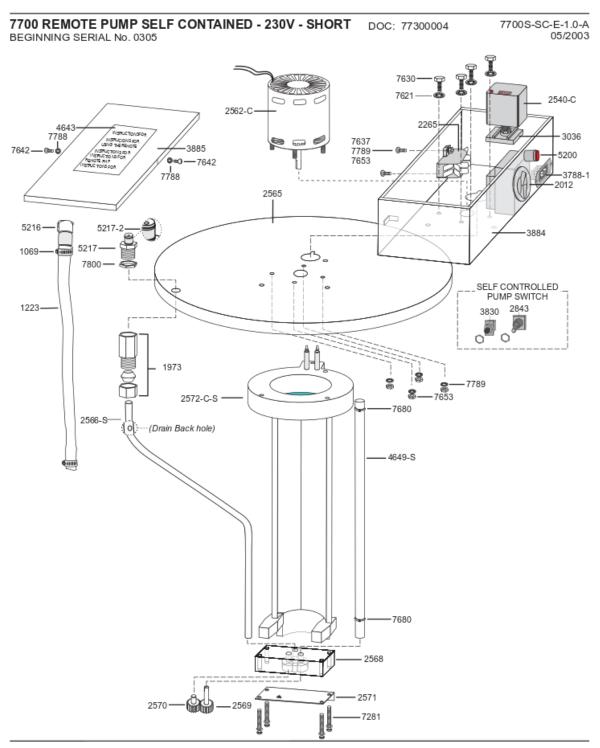
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	NOTE PUMP SELF CONTAINED - 230V S SERIAL No. 99043442	′	DOC: 77300003 770	00-SC-E-1.0-A 03/2000
1069	CLAMP - HOSE	7788	#6 LOCKWASHER	
1223	TUBING - NALGENE SOLD PER FOOT	7800	1/4" NPT HEX THIN NUT	
1973	1/4" NPT TO 3/8" TUBE SS			
2012	SWITCH - TIME HEAT			
2265	TERMINAL BLOCK-2 PIN			
2540-C	TIMER PLUG IN - 230V			
2562-C	PUMP MOTOR - 230V			
2565	PUMP SUPPORT COVER			
2566	OIL INLET TUBE			
2568	PUMP BODY			
2569	PUMP DRIVE GEAR (LONG)			
2570	PUMP IDLER GEAR (SHORT)			
2571	PUMP BODY COVER			
2572-C	PUMP HEAT ELEMENT - 240V			
2573	HOLE COVER W/ "O" RING			
2843	SWITCH-DOUBLE POLE			
3036	RELAY BASE - 8PIN			
3788-1	IEC 320 POER INLET - SCREW MOUNT			
3827	RECEPTACLE ASSY - 230V PUMP			
3830	SWITCH-PUSH BUTTON			
3885	PUMP BOX COVER 230V			
3884	PUMP BOX - 230V SC			
4643	DECAL - PUMP INSTRUCTIONS-INTL			
4649	PUMP SHAFT			
5200	INDICATOR LIGHT			
5216	QUICK CONNECT SOCKET			
5217	QUICK DISCONNECT PLUG			
5217-2	"O" RING ONLY			
7281	8-32 x 1-1/2 THUMB SCREW			
7621	1/4 INTERNAL TOOTH LOCKWASHER			
7630	1/4 x 20 x 1/2 HEX BOLT			
7637	8-32 x 1/2 SS TRUSS HEAD			
7642	8-32 x 3/8 SS TRUSS HEAD			
7653	8-32 HEX NUT			
7680	1/8 x 3/4 'T' COTTER PIN			

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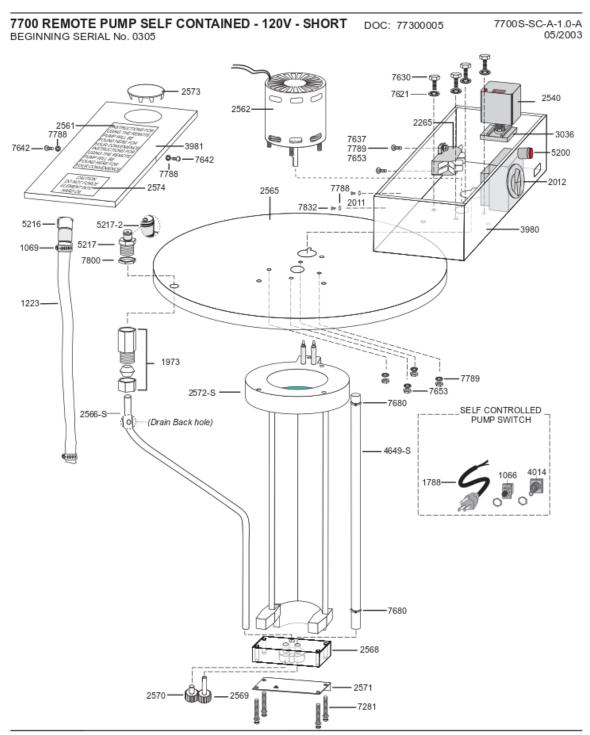


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7700 REMOTE PUMP SELF CONTAINED - 230V - SHORT BEGINNING SERIAL No. 0305	DOC: 77300004	7700S-SC-E-1.0-A 05/2003

1069	CLAMP - HOSE	7788	#6 LOCKWASHER
1223	TUBING - NALGENE SOLD PER FOOT	7800	1/4" NPT HEX THIN NUT
1973	1/4" NPT TO 3/8" TUBE SS		
2012	SWITCH - TIME HEAT		
2265	TERMINAL BLOCK-2 PIN		
2540-C	TIMER PLUG IN - 230V		
2562-C	PUMP MOTOR - 230V		
2565	PUMP SUPPORT COVER		
2566-S	OIL INLET TUBE		
2568	PUMP BODY		
2569	PUMP DRIVE GEAR (LONG)		
2570	PUMP IDLER GEAR (SHORT)		
2571	PUMP BODY COVER		
2572-C-S	PUMP HEAT ELEMENT - 240V		
2573	HOLE COVER W/ "O" RING		
2843	SWITCH-DOUBLE POLE		
3036	RELAY BASE - 8PIN		
3788-1	IEC 320 POER INLET - SCREW MOUNT		
3827	RECEPTACLE ASSY - 230V PUMP		
3830	SWITCH-PUSH BUTTON		
3885	PUMP BOX COVER 230V		
3884	PUMP BOX - 230V SC		
4643	DECAL - PUMP INSTRUCTIONS-INTL		
4649-S	PUMP SHAFT		
5200	INDICATOR LIGHT		
5216	QUICK CONNECT SOCKET		
5217	QUICK DISCONNECT PLUG		
5217-2	"O" RING ONLY		
7281	8-32 x 1-1/2 THUMB SCREW		
7621	1/4 INTERNAL TOOTH LOCKWASHER		
7630	1/4 x 20 x 1/2 HEX BOLT		
7637	8-32 x 1/2 SS TRUSS HEAD		
7642	8-32 x 3/8 SS TRUSS HEAD		
7653	8-32 HEX NUT		
7680	1/8 x 3/4 'T' COTTER PIN		

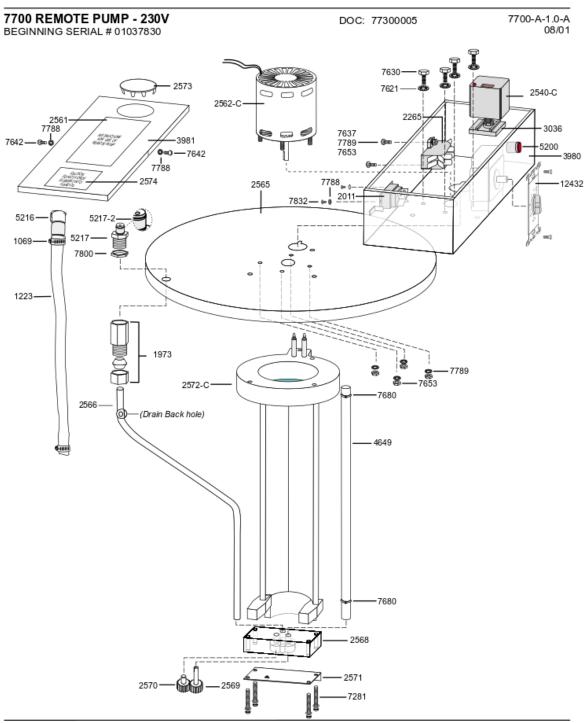
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	OTE PUMP SELF CONTAINED - 120V SERIAL No. 0305	- SHORT	DOC: 77300005	7700S-SC-A-1.0-A 05/2003
1069	CLAMP - HOSE	1255	CONNECTOR 3/8"	
1223	TUBING - NALGENE SOLD PER FOOT	1788	CORD 10 AMP, 16-3	3,NEMA 5-15P
1973	1/4" NPT TO 3/8" TUBE SS	1881	DECAL - PUMP DEI	LIVER 0N-OFF
2011	PUMP RECEPTACLE	2105	SWITCH PLATE - S	C PUMP 120V
2012	SWITCH - TIME HEAT	4014	SWITCH (SPST, 20/	A, 120V)
2265	TERMINAL BLOCK-2 PIN			
2540	TIMER PLUG IN - 230V			
2562	PUMP MOTOR - 120V			
2565	PUMP SUPPORT COVER			
2566-S	OIL INLET TUBE			
2568	PUMP BODY			
2569	PUMP DRIVE GEAR (LONG)			
2570	PUMP IDLER GEAR (SHORT)			
2571	PUMP BODY COVER			
2572-S	PUMP HEAT ELEMENT - 120V			
2573	HOLE COVER W/ "O" RING			
3036	RELAY BASE - 8PIN			
3981	PUMP BOX COVER 120V			
3980	PUMP BOX - 120V SC			
4649-S	PUMP SHAFT			
5200	INDICATOR LIGHT			
5216	QUICK CONNECT SOCKET			
5217	QUICK DISCONNECT PLUG			
5217-2	"O" RING ONLY			
7281	8-32 x 1-1/2 THUMB SCREW			
7621	1/4 INTERNAL TOOTH LOCKWASHER			
7630	1/4 x 20 x 1/2 HEX BOLT			
7637	8-32 x 1/2 SS TRUSS HEAD			
7642	8-32 x 3/8 SS TRUSS HEAD			
7653	8-32 HEX NUT			
7680	1/8 x 3/4 'T' COTTER PIN			
7788	#6 LOCKWASHER			
7800	1/4" NPT HEX THIN NUT			
7572-A	SELF CONTAINED PUMP PARTS - 120V			

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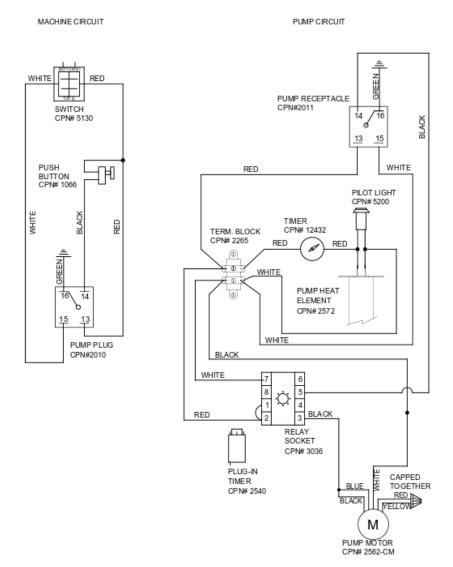
	E PUMP - 230V RIAL # 01037830		DOC:	77300005	7700-A-1.0-A 08/01
1069	CLAMP - HOSE	7800		1/4" NPT HEX THIN NUT	
1223	TUBING - NALGENE SOLD PER FOOT	7832		8-32 x 1/4 BINDING HEAD	
1973	1/4" NPT TO 3/8" TUBE SS	12432		TIMER - SPRING WOUND	
2011	PUMP RECEPTACLE				
2540	TIMER-PLUG IN - 230V				
2265	TERMINAL BLOCK-2 PIN				
2561	DECAL -PUMP INSTRUCTIONS				
2562	PUMP MOTOR - 230V				
2562-C	PUMP MOTOR - 230V				
2565	PUMP SUPPORT COVER				
2566	OIL INLET TUBE				
2568	PUMP BODY				
2569	PUMP DRIVE GEAR (LONG)				
2570	PUMP IDLER GEAR (SHORT)				
2571	PUMP BODY COVER				
2572	PUMP HEAT ELEMENT - 240V				
2573	HOLE COVER W/ "O" RING				
2574	CAUTION-DECAL				
3036	RELAY BASE - 8PIN				
3980	PUMP BOX - 120V				
3981	PUMP BOX COVER 120V				
4649	PUMP SHAFT				
5200	INDICATOR LIGHT				
5216	QUICK CONNECT SOCKET				
5217	QUICK DISCONNECT PLUG				
5217-2	"O" RING ONLY				
7281	8-32 x 1-1/2 THUMB SCREW				
7621	1/4 INTERNAL TOOTH LOCKWASHER				
7630	1/4 x 20 x 1/2 HEX BOLT				
7637	8-32 x 1/2 SS TRUSS HEAD				
7642	8-32 x 3/8 SS TRUSS HEAD				
7653	8-32 HEX NUT				
7680	1/8 x 3/4 'T' COTTER PIN				
7788	#6 LOCKWASHER				
7789	#8 STARLOCKWASHER				

7700 REMOTE CONTROL PUMP WIRING DIAGRAM - 100/120V - 50/60 Hz BEGINING SERIAL NO. 1903

DOC: 7700Ar1

03/2019

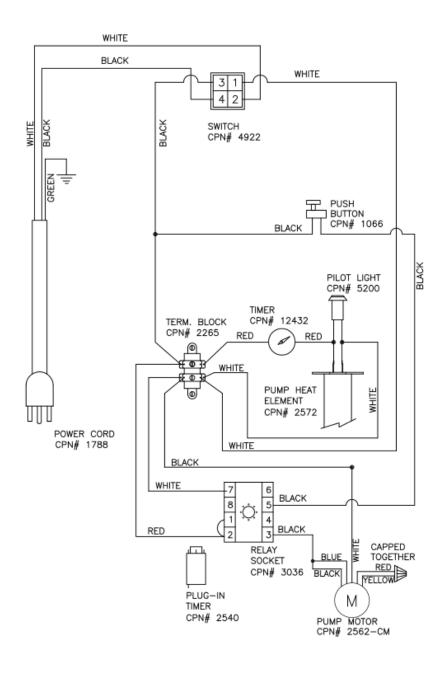
DOC: 7700Ar1



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

7700 SELF CONTAINED PUMP WIRING DIAGRAM - 120V/60Hz. BEGINING SERIAL NO. 1705 DOC: 7700ASCr2

05/2017



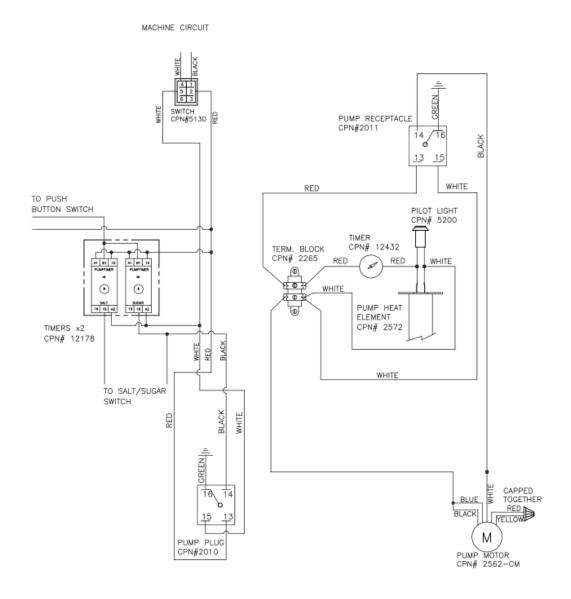
C.CRETORS AND COMPANY 170 MITTEL DRIVE WOOD DALE, ILLINOIS 60191

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WEB SITE: http://www.cretors.com Email: postmaster@cretors.com

7700 REMOTE CONTROL PUMP - SALT/SUGAR WIRING DIAGRAM - 100V-120V 60Hz. BEGINING SERIAL NO. 1705

DOC: 7700ASSRCr2

05/2017

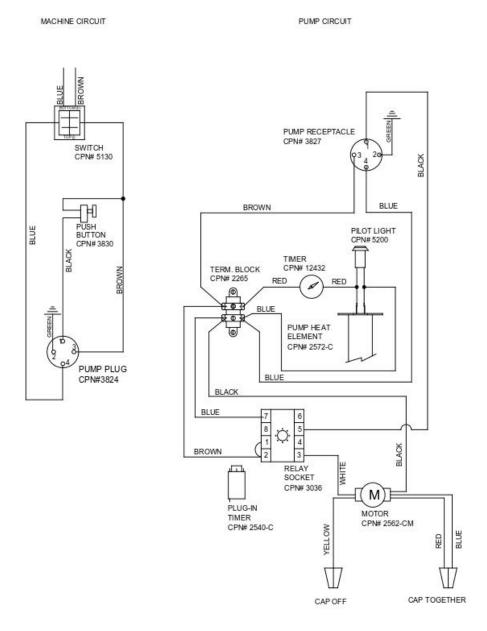


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7700 REMOTE CONTROL PUMP WIRING DIAGRAM - 230V 50Hz BEGINING SERIAL NO. 1903 DOC: 7700Er1

03/2019

DOC: 7700Er1

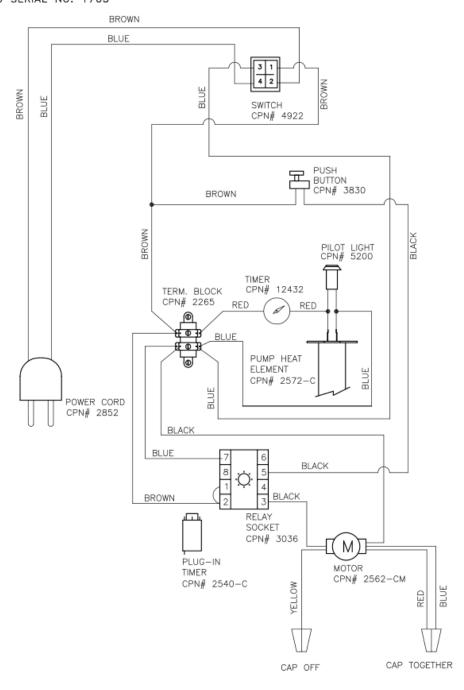


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WEB SITE: http://www.cretors.com Email: postmaster@cretors.com

7700 SELF CONTAINED PUMP WIRING DIAGRAM - 220V 50Hz. BEGINING SERIAL NO. 1705

DOC: 7700ESCr3

05/2017



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PHONE(847)616-6900, (800)228-1885, FAX (847)616-6970
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PUMP CIRCUIT

7700 REMOTE CONTROL PUMP SALT/SUGAR WIRING DIAGRAM - 230V 50Hz BEGINING SERIAL NO. 1507

MACHINE CIRCUIT

DOC: 7700ESSr2

07/2015

CAP TOGETHER

CAP OFF

PUMP RECEPTACLE CPN# 3827 SWITCH CPN#5130 BROWN PILOT LIGHT CPN# 5200 TO PUSH BUTTON SWITCH TIMER TERM. BLOCK CPN# 2265 CPN# 12432 RED RED **6** BLUE 0 0 PUMP HEAT ELEMENT CPN# 2572-C TIMERS x2 CPN# 12178 BLUE TO SALT/SUGAR PUMP CORD & PLUG CPN# 2009-E SWITCH PUMP PLUG CPN#3824 М∑ MOTOR CPN# 2562-CM YELLOW BLUE 뎶

C.CRETORS AND COMPANY
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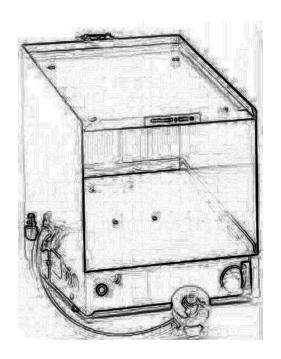
176 MITTEL DRIVE, WOOD DALE, IL 60191

7900 Bag-N-Box Pump Manual Models 7900RCA-___, 7900LA-___, 7900GMA- 7900-RCE-___, 7900LE-_, 7900GME

120 Volt Single Phase, 60 Cycle

100/120 Volt Single Phase, 50/60 Cycle

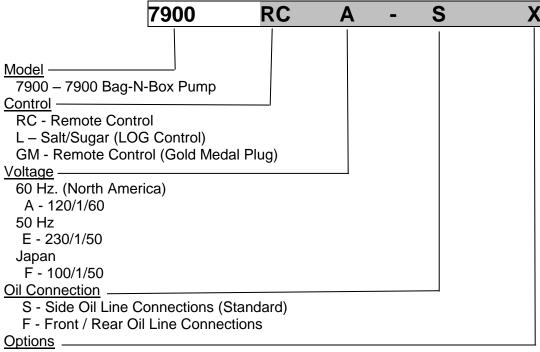
230 Volt Single Phase, 50 Cycle





READ and **UNDERSTAND** these servicing, and safety instructions before servicing this popcorn machine

Part Number Configuration: 7900 Bag-N-Box Oil Pump



- X No Custom Features
- C Custom Features
- H Heated Tubes
- EH 30" Heated Tubes
- Z Other

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 and procedures. It means **ATTENTION! Become Alert! Your personal safety is at risk!** 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 safe installation and service of your Cretors machine. The manual must be read and understood before installing, or maintaining equipment, or equivalent training must be provided.



"The employer must instruct each employee in the recognition and avoidance of unsafe conditions, regulations applicable to his work environment to control and 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 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. 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 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 last page 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:

Electrical configurations:

120 Volt, Single Phase, 60 Hz 100/120Volt, Single Phase, 50/60 Hz 230 Volt, Single Phase, 50 Hz.

B. SIZE SPECIFICATIONS:

MODEL 7900 7900 AUTOMATIC OIL PUMP MODEL

Capacity: (2) 35 lb. boxes of oil.

Electrical: 120 volt, 60 cycle, single phase, 250 watts, 2.1 amps.

Dimensions: 16-1/2"H x 18-1/4" D x 14-3/4" W

Net Weight: 30 lbs. Shipping Weight: 39 lbs.

MODEL 7900 7900 AUTOMATIC OIL PUMP MODEL

Capacity: (2) 35 lb. boxes of oil.

Electrical: 230 volt, 50 cycle, single phase, 250 watts, 1.1 amps.

Dimensions: 16-1/2"H x 18-1/4" D x 14-3/4" W

Net Weight: 30 lbs. Shipping Weight: 39 lbs.



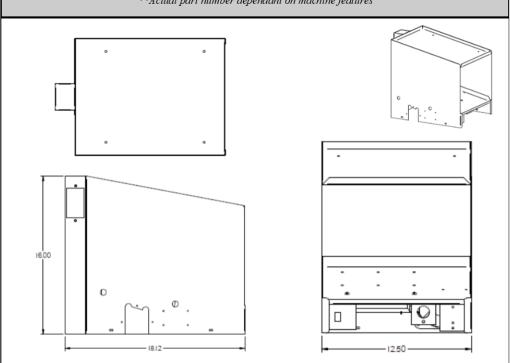
7900 Bag-In-Box Oil Pump





Part Number	Voltage	Wattage	NEMA Plug
**7900X(X)X-X	120v (60Hz); 230v (50Hz)	250	5-15

Shipping Weight: 35 lbs/ Shipping Dimensions: 22in x 18in x 19in Metric Shipping Weight: 16 kg/ Shipping Dimensions: 56cm x 44cm x 49cm *Actual dimensions available in technical drawing below **Actual part number dependant on machine features



V. PURPOSE OF MANUAL

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

This manual should be kept available to maintenance personnel.

VI. INSTALLATION INSTRUCTIONS

A. Location

Choose a location for your Cretors machine that maximizes the ease of operation and maintenance procedures. Be sure to check your local building and fire codes for location restrictions.

B. Power Supply

1. The 7900 Oil Pump is provided with either 120 volt components, which requires a 120 volt circuit for proper operation or 230V components. Check the nameplate to determine the required power supply.



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

2. C. Cretors and Company recommends dedicated circuits for the 7900 Model Cretors Oil Pump. The 7900 Model Cretors Oil Pump requires a dedicated circuit to avoid a voltage drop in the supply wiring. Check your local electrical codes regarding fuse or circuit breaker requirements.



Make certain your machine is properly grounded. Failure to do so may result in damage to your equipment or present a shock hazard.

C. Connecting Oil Pump to the Power Supply

1. Make certain that the power supply circuit breakers are in the off position.



Perform work only on de-energized circuits. Failure to do so may result in damage to your equipment or present a shock hazard.

- 2. Make certain all switches on the popcorn machine are in the off position before plugging in your 7900 Model Cretors Oil Pump.
- 3. Plug your popcorn machine and oil pump into the correct type of outlet, turn on the circuit breaker and then turn on the machine switches. If the motor groans, the receptacle in the wall may have been improperly wired. Contact an electrician.

D. Pump Installation

- 1. Make certain the pump switch on the control panel is in the off position.
- 2. Receiving a 7900 pump as a replacement for 7700 or earlier models.
 - a. The units equipped with wood bases, remove the (2) screws on back flange of oil pail tray (P/N 1349) and remove tray. This tray is not needed for 7900 model.
 - b. Replace existing plastic hose (#1223) (7" on Diplomat, 19" on President) with 20" or 24" plastic hose respectively. The existing hose clamps (#1609) and socket (#5216) are still used. If existing hose length was shortened so the socket (#5216) does not have sufficient length to connect to the plug (#5217) on the pump, replace the entire length 110" (for Merchant and Profiteer).



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

- 3. The 7900 model weighs approximately 30 lbs., so use proper lifting techniques and slide pump into cabinet. Allow at least 3" from the front edge of pump to the back side of door. This will ensure that the door, when closed, will not interfere with the properly connected bag connector.
- 4. Connect hose (#1223) simply by pushing socket (#5216) into plug (#5217) and make sure that it has snapped into place. Test engagement by pulling up on the hose near connection, fittings will not disengage.
- 5. Connect pump cord and plug to pump receptacle located on the top or on the back of the model 7900 pump.
- 6. While using proper lifting techniques, load one box into bottom tray and one on top. Following the instructions on the box itself, connect the bag connector to the Bag-N-Box nozzle. You are now ready to adjust the pump as outlined in Pump Adjustment.



Make sure that the popper heat switch is in the off position during all pump adjustments. Failure to do so may result in serious burns.



WARNING! If either shelf is not occupied by the Bag-N-Box oil, use caution around these surfaces as they will be hot! Failure to do so may result in serious burns.

E. Pump Adjustment

- 1. Make sure that the pump power switch and the auxiliary switch located on the popper are on.
- 2. Check the output of the pump by placing the kettle in the dumped position and hold the oil measuring cup under the oil delivery tube. With the pedestal mounted units (i.e. Giant/President), disconnect the oil tube from the kettle and dispense the oil into the measuring cup.



WARNING! Never hold the oil measuring cup under the oil delivery tube if the kettle is in the up position. **The kettle maybe hot!** Failure to do so may result in serious burns.

- 3. Press the delivery button or One Pop button and wait for the pump to cycle. Dispose of the oil, and cycle the pump again.
- 4. After three cycles, the amount of oil delivered will be consistent. Check this amount with the measuring cup.
- 5. If the amount of oil is not correct, it may be adjusted. For a Salt/Sugar machine, the timer is located in the popper. To adjust the pump:
 - a. Turn off the pump switch.
 - b. To set the amount of oil being delivered:
 - i) Remove the snap out plug on the front side of the bottom cover to expose the timer.
 - ii) Check to make sure the timer has good contact by pushing down lightly onto the timer base, making certain not to push any of the switches.
 - iii) Switches 1 through 10 are each assigned a certain amount of seconds of run time. Each successive switch doubles the run time for the switch before it. The amount of run time is written at the top, along the Open/Off line (i.e. 1,2,4,8, etc.)
 - iv) The switch must be in the Up position along the Open/Off line for the run time to apply. For example, to make the pump run for three seconds, the timer would have the switch corresponding to 1 on the Open/Off line up along with the switch corresponding to 2 on the Open/Off line.

To turn the dip switches ON the dip switch needs to be pressed down to the number side opposite of the open side. Open is off.



Switch #1 = 1 seconds

#2 = 2 seconds

#3 = 4 seconds

#4 = 8 seconds

#5 = 16 seconds

Example: If you turn #3 and #4 on, the time delay will be 12 seconds.

Machine PT14 Recommended Amount of Oil 4.5 oz. Set Timer to Number of Seconds (Your results may vary.) 3 seconds

MR16	5.5 oz.	4 seconds
DI20	6.5 oz.	5 seconds
PR20	6.5 oz.	5 seconds
EG20	6.5 oz.	5 seconds
DI32	10.5 oz.	9 seconds
PR32	10.5 oz.	9 seconds
EG32	10.5 oz.	9 seconds
GG32	10.5 oz.	9 seconds
EG48	16 oz.	12 seconds
EG60	20 oz.	16 seconds

- c. Turn on the pump switch and re-check the oil output using steps 1-5 in the Pump Adjustment Section.
- Install snap out plug.

F. Bag-N-Box Connector

- 1. Prepare the box for use by breaking the perforated opening on the box and bending back the corrugated tab. Reach inside and grasp the bag spout. Place the ring of the spout into the box slot and lock it into place with the corrugated tab.
 - a. Place the Bag-N-Box in the appropriate shelves. Next remove the travel cap from the spout. The travel cap prevents the dirt and dust from coming in contact with the internal slider for sanitary hook-up.
 - b. Snap the locking plate over the bag spout. The tapered probe on the connector is then pushed into the bag spout and it locks into place. This bi-directional locking action does two things. One, it eliminates any possibility of accidental disconnect, giving the user a "fool proof" positive connection and two, it opens the channel allowing product to follow.
 - c. When the Bag-N-Box container is empty, disengage the connector by snapping the connector probe into the out position and remove it from the bag spout. This disconnects and reseals the bag. All product contact surfaces are protected ensuring a sanitary situation.
 - d. Repeat steps a-c to properly re-connect Bag-N-Box to the pump.

NOTE: Prior to each attachment of the Bag-N-Box connector, ensure that the probe has not been contaminated. If this has occurred, clean the connector as described in the **Sanitation Instructions.**

VIII. OPERATING INSTRUCTIONS



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



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



Always turn the kettle heat switch off when not popping corn. Failure to do so will cause oil to stain the kettle, possibly resulting in an unsanitary condition. It may also cause a "flash" fire if oil is added to a kettle left unattended with the heat on, resulting in serious burns or death.

- A. Operate only after "Installation Instructions" in the Service Manual have been followed.
- B. To operate your Cretors 7900 oil pump:
 - 1. Turn on the pump switch, located on the popper, to the on position.
 - 2. Pre-heat the popping oil until liquid, if necessary.
 - 3. Push the oil pump or the One-Pop button to dispense oil. If too much or too little oil is being dispensed, see "Pump Adjustment" in the Service Manual.
 - 4. Exchange boxes by disconnecting bag connector from bottom and connecting to top.
 - 5. Follow the recommended sanitation procedures.

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 or scalds.

The 7900 pump is designed as a closed system and should remain aseptic.

If you believe your pump system is contaminated, then you will need to clean the system.

The pump is cleaned using the following steps:

- 1. Remove the Bag-N-Box connector.
- 2. Place the end of the oil tube into hot soapy water in a pail.
- 3. Cycle pump sufficiently to flush system. Be sure to have a container to catch the water at the discharge tube near the kettle.
- 4. Move the oil tube to clean hot water and cycle pump to flush hot soapy water from the system.
- 5. **IMPORTANT:** When system is clean, you must then cycle the system with oil to prevent any damage to the pump. **Never leave the pump wet with water only.** Mineral oil may be used.

To Clean Bag-N-Box Connector:

- 1. Remove from tubing.
- 2. Remove probe body from clamp by spreading clamp body tabs and sliding probe body out.
- 3. Remove probe spout adapter from probe body by unscrewing stem from probe body.
- 4. Remove seal body and spring from stem and nut assembly by unsnapping seal body from stem.
- 5. Clean all parts in accordance to NSF and local requirements (hot, soapy water, and rinse). Do not use petroleum base cleaning agents or abrasive cleaners. Damage to sealing surfaces may occur and jeopardize the sanitary integrity of the connector.
- 6. Inspect the three "O" rings for damage or imbedded particles. Replace as required.
- 7. Reassemble by reversing steps 1-4.

Sanitation of your popcorn machine and oil pump is imperative for production of an appetizing product. Failure to follow proper sanitation procedures for food contact surfaces or usage of contaminated ingredients (salt, oil, seasonings) could result in poor product quality and may cause illness to your customers.

Your Cretors oil pump is National Sanitation Foundation (NSF) listed, and can be easily cleaned to assure a high quality product. Use pure ingredients, always emphasize machine sanitation, and follow the sanitation procedures outlined in this manual to protect the welfare of your customers.

X. TROUBLE SHOOTING



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



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

PROBLEM	POSSIBLE CAUSE	ACTION
Nothing works.	Is the pump plugged in?	Plug in.
	Is the switch turned on?	Turn on the switch on the popper.
Pump not heating.	Check element.	Use an ammeter to diagnose.
		Replace if bad.
Motor hums, but will not	Debris in pump.	Clean out pump.
turn.	The motor burned out, because it	Replace motor. Check for the
	cannot turn.	correct alignment between the
		motor and the pump.
Pump runs all the time.	Timer set incorrectly.	Reset. (See Pump Adjustment)
	Bad timer.	Replace timer.
Motor runs, but does not	Check for oil in the box.	Exchange.
dispense oil.	Pump sucking plastic bag, not oil	Move connector.
	by the nozzle.	
	Is the line clogged?	Assure lines do not have hardened
		oil blocking the line and heated
		lines are warm
Amount of oil delivered is	Check oil tubing for leakage and	Fix or replace clamps on tubing.
not consistent.	for restrictions.	
	Bag-N-box connector improperly	Re-install connector.
	installed.	
	Oil is not in liquid state.	Wait till oil is liquid.

Do not attempt to operate pump if the Bag-N-Box is in the upright position.

This manual is filled with time-saving and money-saving information regarding your Cretors Bag-N-Box Oil Pump. 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.

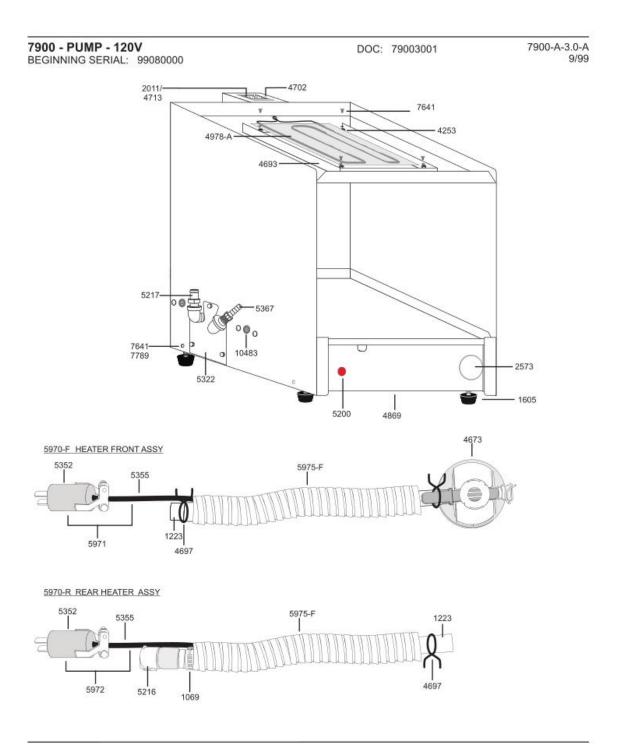
Cretors guarantees this machine to be free of defects in parts, materials and workmanship for two years. Please take this time to fill out the factory registration card and return it to Cretors to activate your warranty. If you have any questions concerning the Cretors' warranty, please contact your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



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PHONE (773) 588-1690, (800) 228-1885, FAX (847) 616-6970

WEB SITE: http://www.cretors.com Email: postmaster@cretors.com



DOC: 79003001

7900-A-3.0-A

9/99

1605 RUBBERFOOT W/ HARDWARE 2011 RECEPTACLE 2573 HOLECOVER" ORING 4253 8-32x1/25PACERHEX 4693 ELEMENT CORNER 4702 TOP ENDWIREBOX 4713 RECEPTACLE-GOLDNETAL BOTTOMOVER 4869 4978 HEAT PAD 5200 INDICATORIL OHT 5217 PLUG-ON CHOISCONNECT 5322 COVERPLATESIDEDISCHARGE 5367 HOLEBARB 5970-F HEATED TUBE ASSEMBLY FRONT (Parts Also So I dSeparately) 5352 PLUG 5355 HEATER-ROPE18" 5971 HEATERFRONT ASSEMBLY 5975-F SLEEVE-STAINLESSSTEEL- FRONT 1223 TUBING-NA GENE- CLEAR PERFOOT 5970-R HEAT TUBE ASSEMBLY REAR (Part sAt s coold Separ at ely)

1069 HOSEC AMP 5352 PLUG

8-32x1/4SSTRU SSHEAD

#8STARWA SHER 10483 RECEPTACLE ASSY

7641

7789

5355 HEATER-RDE18"

5972 REARHEATERA SSEMBLY 5975-F SLEEVE-STALINLESSSTEEL-REAR 1223 TUBING-MALGENE- CLEARPERFOOT

7900 - PUMP - 120V

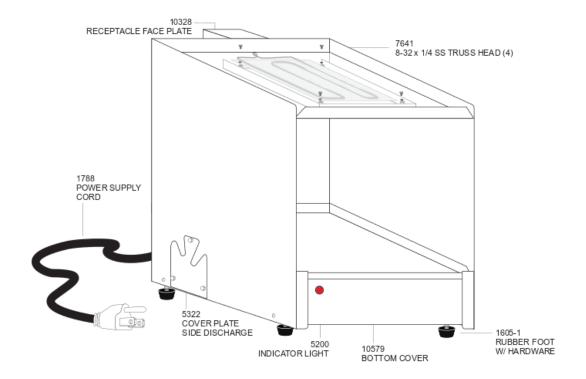
BEGINNING SERIAL: 99080000

C. CRETORS AND COMPANY

7904 WARMER - 120VBEGINNING SERIAL: 98074678

DOC: 79043001

7904-A-3.1-A
9/98

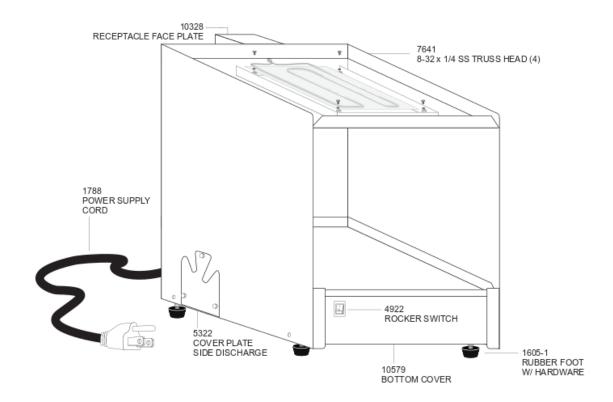


C. CRETORS AND COMPANY

7904 WARMER - 100-120VBEGINNING SERIAL: 06104678

DOC: 79043002

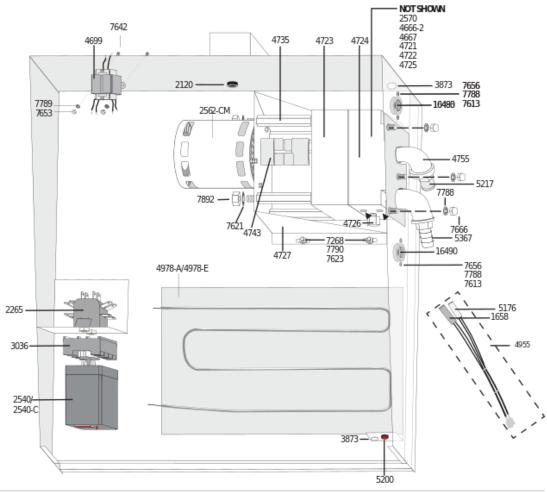
7904-A-3.1-B
10/06



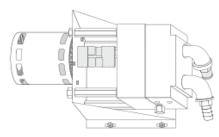
7900 BAG-N-BOX PUMP 120V/230V-HEATED

BOTTOM VIEW BEGINNING SERIAL: 0504 DOC: 79003004

7900-A-3.1-B 12/18



4750 - DUAL CDC PUMP COMPONENTS ASSEMBLED



	G-N-BOX PUMP 120V - HEATED	DOC:	79003004	7900-A-3.1-B
BOTTOM \ BEGINNING	/IEW G SERIAL: 0504			12/1
1658	HEATER - TUBULAR			
2120	BUSHING - HEYCO			
2265	TERMINAL BLOCK 2-PIN			
2540-C	TIMER PLUG-IN - 120V			
3036	RELAY BAS E - 8 PIN			
3873	HOLE COVER 5/8			
4699	TRANSFORMER 40VA - 120/208/240 CLAS	S 2 - 240 V OUTPUT		
4723	PUMP BODY W/ SEAL	22 210 7 33 11 31		
4724	VALVE BODY			
4726	STOP PLUG & PIN			
4727	BRACKET			
4735	SPACER			
4734	MOTOR (8D262)			
2562-CM	COUPLING			
4755	ELBOW - 90 DEGREE			
4750	CDC PUMP COMPONENTS			
4978-A/49	978-E HEAT PAD-120V			
5200	INDICATOR LIGHT			
5217	PLUG-QUICK DISCONNECT			
5176	THERMOSTAT - TYPE J			
5367	HOSE BARB			
7268	10-32 x 1/2 SLTD TR HD			
7613	6-32 x 5/16 x 7/64 HEX NUT			
7621	1/4" INTERNAL TOOTH LOCKWASHER			
7623	10-32 HEX NUT			
7642	8-32 X 3/8 SS TRUSS HEAD			
7653	8-32 HEX NUT			
7656	6-32 x 3/8 BINDING HEAD			
7666	6-32 CAP NUT			
7788	#6 LOCKWASHER			
7789	#8 STAR LOCKWASHER			
7790	#10 STAR LOCKWASHER			
7000	1/4-20" x 11/64" HEAVY J AM NUT			
7892				

NOT SHOWN

2570 PUMP IDLER GEAR (SHORT)

4666-2 SHUTTLE 4667 SPRING 4721 "O" RING 4722 SEAL 4725 GEAR & SHAFT

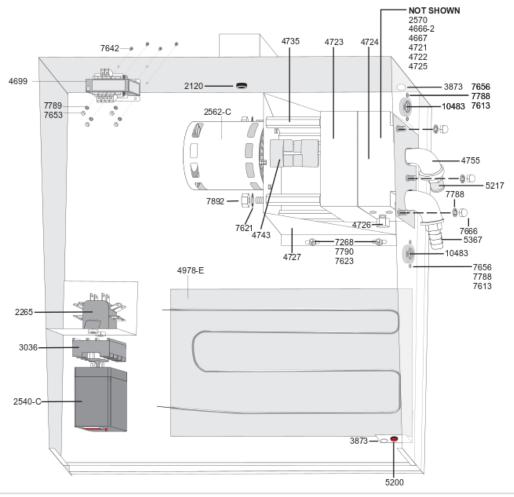
4721 ORING

C. CRETORS AND COMPANY 176 MITTEL DRIVE

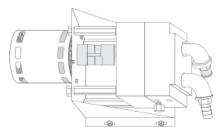
WOOD DALE, IL 60191 PHONE: (847)616-6900, (800)228-1885, FAX: (847)616-6971 WEB SITE: http://www.cretors.com Email: postmaster @cretors.com

7900 BAG-N-BOX PUMP 240V - HEATED

BOTTOM VIEW BEGINNING SERIAL 0504XXXX DOC: 79003006 BIB-E-3.1-A 03/05

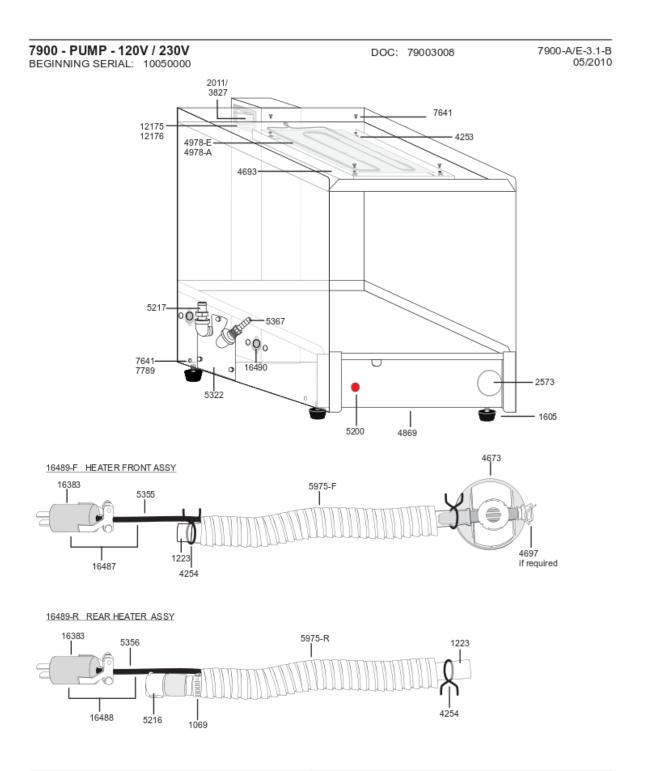


4750-E CDC PUMP COMPONENTS ASSEMBLED



7900 BAG-N-BOX PUMP 240V - HEATED BOTTOM VIEW		DOC: 79003006	BIB-E-3. 03
	NG SERIAL 0504XXXX		
2120	BUSHING - HEYCO		
2265	TERMINAL BLOCK 2-PIN		
2540-C	TIMER PLUG-IN - 230V		
2562-C	MOTOR		
3036	RELAY BASE - 8 PIN		
3873	HOLE COVER 5/8		
4699	TRANSFORMER-40W		
4723	PUMP BODY W/ SEAL		
4724	VALVE BODY		
4726	STOP PLUG & PIN		
4727	BRACKET		
4735	SPACER		
4743	COUPLING		
4755	ELBOW - 90 DEGREE		
4750-E	CDC PUMP COMPONENTS		
4978-E	HEAT PAD - 240V		
5200	INDICATOR LIGHT		
5217	PLUG-QUICK DISCONNECT		
5367	HOSE BARB		
7613	6-32 x 5/16 x 7/64 HEX NUT		
7621	1/4" INTERNAL TOOTH LOCKWASHER		
7623	10-32 HEX NUT		
7642	8-32 X 3/8 SS TRUSS HEAD		
7653	8-32 HEX NUT		
7268	10-32 x 1/2 SLTD TR HD		
7656	6-32 x 3/8 BINDING HEAD		
7666	6-32 CAP NUT		
7788	#6 LOCKWASHER		
7789	#8 STAR LOCKWASHER		
7790	#10 STAR LOCKWASHER		
7892	1/4-20" x 11/64" HEAVY JAM NUT		
10483	RECEPTACLE ASSEMBLY		
NOTSHO	DWN		
2570	PUMP IDLER GEAR (SHORT)		
4666-2	SHUTTLE		
4667	SPRING		
4722	SEAL		
4725	GEAR & SHAFT		
4721	"O" RING		
4121	O MINO		

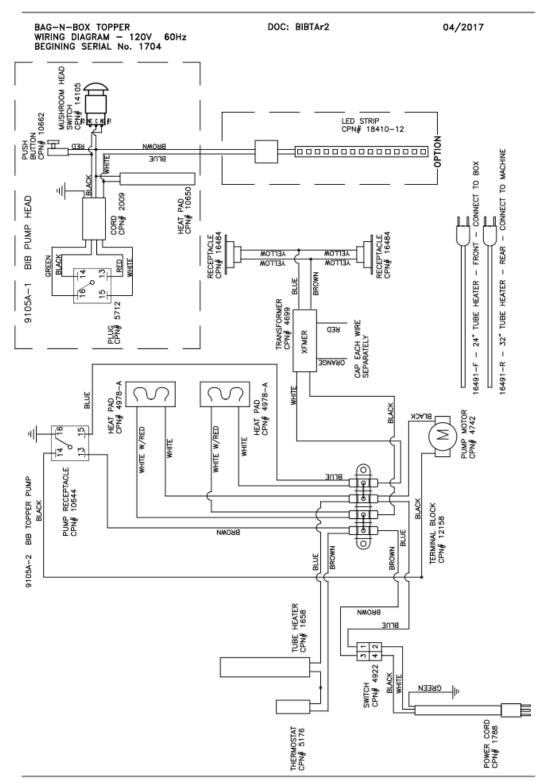
4722 SEAL



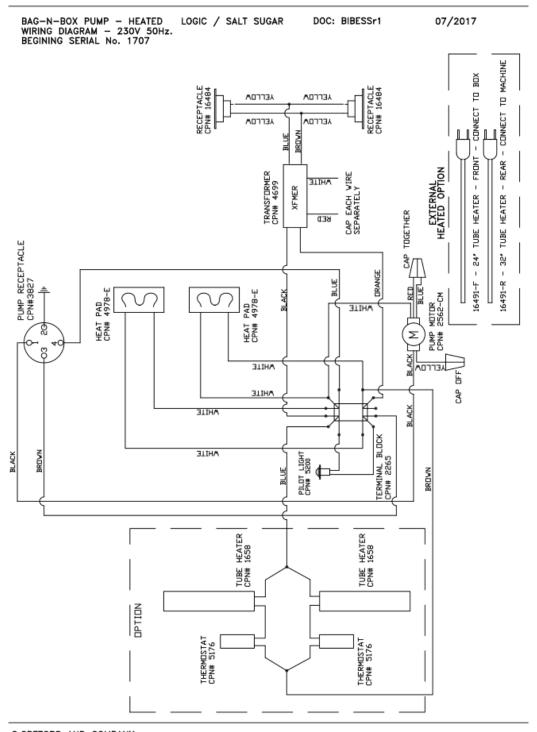
7900 - PUMP - 120V / 230V	DOC: 79003008	7900-A/E-3.1-B
BEGINNING SERIAL: 10050000		05/2010

1605	RUBBER FOOT W/ HARDWARE
2011	RECEPTACLE-120v
2573	HOLE COVER "O" RING
3827	RECEPTACLE-230v
4253	8-32 x 1/2 SPACER HEX
4254	CLAMP-HOSE-SELF TIGHTENING
4693	ELEMENT COVER
4697	HOSE CLAMP-SELF TIGHTENING-1/2
4713	RECEPTACLE-GOLD METAL
4869	BOTTOM COVER
4978-A	HEAT PAD-120V
4978-E	HEAT PAD-230V
5200	INDICATOR LIGHT
5217	PLUG - QUICK DISCONNECT
5322	COVER PLATE SIDE DISCHARGE
5367	HOLE BARB
16489-F	HEATED TUBE ASSEMBLY FRONT (Parts Also Sold Separately)
	16483 PLUG
	5355 HEATER - ROPE 18"
	16487 HEATER FRONT ASSEMBLY
	5975-F SLEEVE - STAINLESS STEEL - FRONT
	1223 TUBING - NALGENE - CLEAR PER FOOT
16489-R	HEAT TUBE ASSEMBLY REAR (Parts Also Sold Separately)
	1069 HOSE CLAMP
	16483 PLUG
	5356 HEATER - ROPE 26"
	16488 HEATER REAR ASSEMBLY
	5975-R SLEEVE - STAINLESS STEEL - REAR
	1223 TUBING - NALGENE - CLEAR PER FOOT
7641	8-32 x 1/4 SS TRUSS HEAD
7789	#8 STAR WASHER
16490	RECEPTACLE ASSY
12175	CONNECTOR PLATE 120V- 7900 PUMP
12176	CONNECTOR PLATE 230V- 7900 PUMP

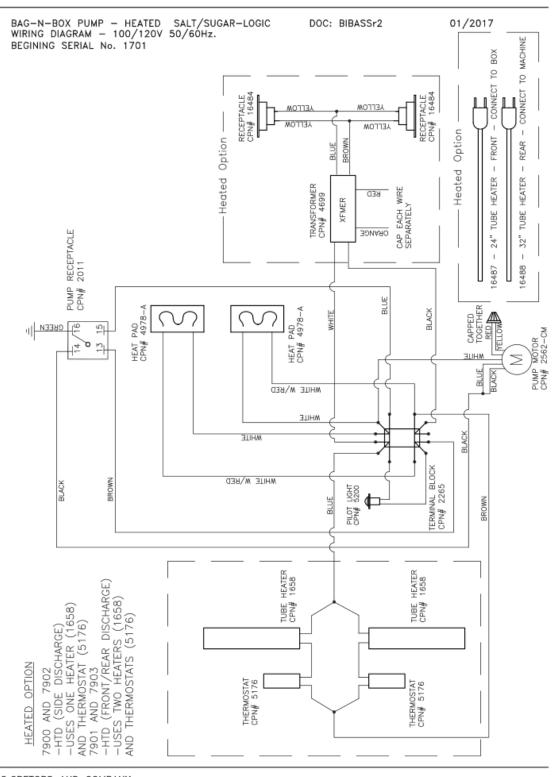
C. CRETORS AND COMPANY



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



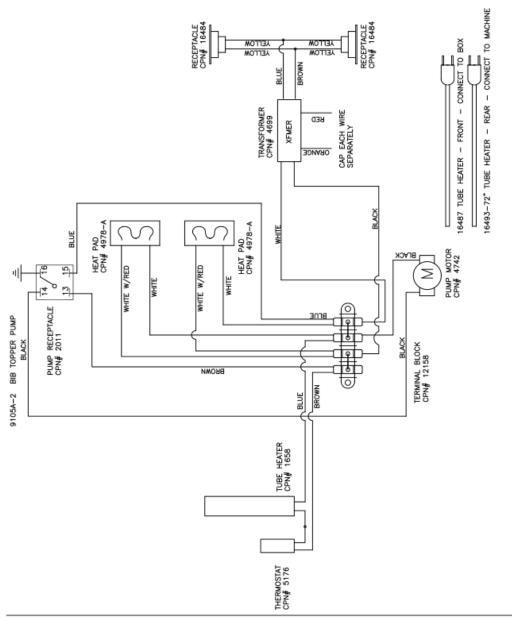
C.CRETORS AND COMPANY
3243 NORTH CALIFORNIA AVENUE
CHICAGO, ILLINOIS 60618
PHONE(773)588-1690, (800)228-1885, FAX (773)588-2171
WEB SITE: http://www.cretors.com Email: postmaster@cretors.com



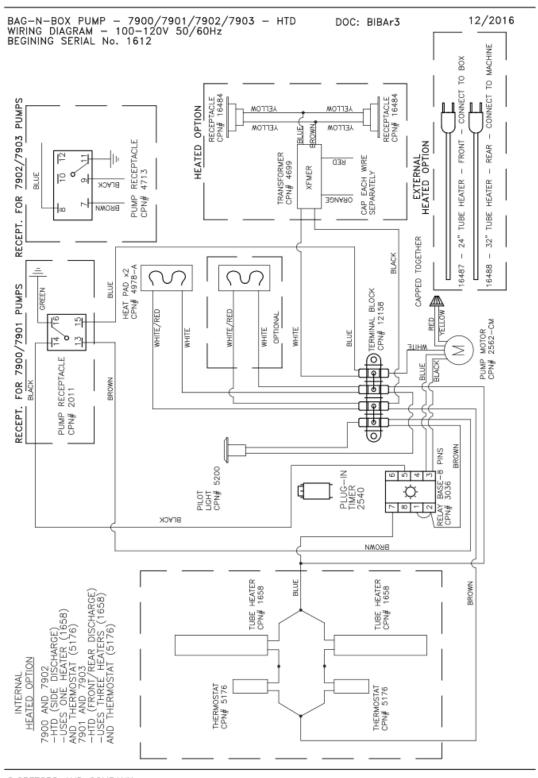
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PHONE(847)616-6900, (800)228-1885, FAX (847)616-6970
WEB SITE: http://www.cretors.com Email: postmaster@cretors.com

BAG-N-BOX TOPPER / SELF SERVE WIRING DIAGRAM - 120V 60Hz BEGINING SERIAL No. 1703 DOC: BIBTASFSVr1

03/2017



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170 MITTEL DRIVE
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PHONE(847)616-6900, (800)228-1885, FAX (847)616-6970
WEB SITE: http://www.cretors.com Email: postmaster@cretors.com

LIMITED TWO YEAR WARRANTY

We warrant to the purchaser of each new CRETORS popcorn machine and related products that we will replace F.O.B. our factory. Any part which proves to be defective in material or workmanship within two years from the date of purchase providing such part is returned to C. Cretors & Company. Transportation charges prepaid. This warranty does not apply to a part damaged by accident, abuse, misapplication or misuse. Nor can we honor any claim for repairs or service unless previously authorized by us.

This warranty gives you specified legal rights and you may have other rights which vary from state to state.

C.CRETORS & CO. 176 Mittel DR Wood Dale, Illinois 60191-1142

IMPORTANT NOTICE

FACTORY REGISTRATION

IMPORTANT - Please complete and return this card immediately so that we can promptly add your name to our Owner Registration files. By returning this card, you will ensure that the (2) two year warranty covered above is in force. The return of this card ensures our ability to provide you prompt, effective service, and also positively identifies the original owner.

you plottipl, effective :	service, and also positive	ly identifies the original owner.	
Purchase Date	Model	Serial #	
	Detach and re	turn bottom section.	
	FACTORY REGIS	TRATION CARD	
Owner's Name		Date	
Owner's Address		Phone # ()	
Owner's City		StateZip Code	
Purchase Date	Model	Serial #	
Dealer's Name		City & State	
☐ Home use ☐ Com		olicable): Quality	
C CRETORS & CO . 1	74 MITTEL DD & WOOD DA	IE II 60101-1142	

C. CRETORS & CO. • 176 MITTEL DR • WOOD DALE, IL 60191-1142



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