

# Gas Autolift Fryer

MODELS BLG, BLG-F, BLG-FC  
Installation and Operation Manual  
Serial Numbers 000001 and higher



## BKI LIMITED WARRANTY

2812 Grandview Dr. • Simpsonville, SC 29680 • USA  
(864) 963-3471 • Toll Free: (800) 927-6887 • Fax: (864) 963-5316

### WHAT IS COVERED

This warranty covers defects in material and workmanship under normal use, and applies only to the original purchaser providing that:

- The equipment has not been accidentally or intentionally damaged, altered or misused;
- The equipment is properly installed, adjusted, operated and maintained in accordance with national and local codes, and in accordance with the installation and operating instructions provided with this product.
- The serial number rating plate affixed to the equipment has not been defaced or removed.

### WHO IS COVERED

This warranty is extended to the original purchaser and applies only to equipment purchased for use in the U.S.A.

### COVERAGE PERIOD

- Warranty claims must be received in writing by BKI within one (1) year from date of installation or within one (1) year and three (3) months from date of shipment from the factory, whichever comes first.
- COB Models: One (1) Year limited parts and labor.
- COM Models: Two (2) Year limited parts and labor. COM convection ovens also have a two (2) year door warranty.
- CO1 Models: Two (2) Year limited parts and labor. Five (5) Year limited door warranty.
- BevLes Products: Two (2) Year limited parts and labor.
- Warranty period begins the date of dealer invoice to customer or ninety (90) days after shipment date from BKI, whichever comes first.

### WARRANTY COVERAGE

This warranty covers on-site labor, parts and reasonable travel time and travel expenses of the authorized service representative up to (100) miles round trip and (2) hours travel time and performed during regular, weekday business hours.

### EXCEPTIONS

Any exceptions must be pre-approved in advance and in writing by BKI. The extended door warranty on convection ovens years 3 through 5 is a parts only warranty and does not include labor, travel, mileage or any other charges.

### EXCLUSIONS

- Negligence or acts of God,
- Thermostat calibrations after (30) days from equipment installation date,
- Air and gas adjustments,
- Light bulbs,
- Glass doors and door adjustments,
- Fuses,
- Adjustments to burner flames and cleaning of pilot burners,
- Tightening of screws or fasteners,
- Failures caused by erratic voltages or gas suppliers,
- Unauthorized repair by anyone other than a BKI Factory Authorized Service Center,
- Damage in shipment,
- Alteration, misuse or improper installation,
- Thermostats and safety valves with broken capillary tubes,
- Freight - other than normal UPS charges,
- Ordinary wear and tear,
- Failure to follow installation and/or operating instructions,
- Events beyond control of the company.

### INSTALLATION

Leveling, as well as proper installation and check out of all new equipment - per appropriate installation and use materials - is the responsibility of the dealer or installer, not the manufacturer.

### REPLACEMENT PARTS

BKI genuine Factory OEM parts receive a (90) day materials warranty effective from the date of installation by a BKI Factory Authorized Service Center.

**NOTICE**

The purchaser must post, in a prominent location, instructions to be followed in the event the user smells gas. This information shall be obtained by consulting the local gas supplier.

**⚠ WARNING**

**FOR YOUR SAFETY**

**Do not store or use gasoline or other flammable vapors or liquids in the vicinity of this or any other appliance.**

**⚠ WARNING**

**Improper installation, adjustment, alteration, service or maintenance can cause property damage, injury or death. Read the installation, operation and maintenance instructions thoroughly before installing or servicing this equipment.**

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## Introduction

The BLG Fryer is compact, attractive and functional in design. It is constructed of a stainless steel fryer pot for cleaning ease. Exclusive BKI patented features and safety devices offer flexibility, efficiency and reliability plus **PERFECTION IN PRESSURE FRYING!**

The BKI name and trademark on this unit assures you of the finest in design and engineering -- that it has been built with care and dedication -- using the best materials available. Attention to the operating instructions regarding proper installation, operation, and maintenance will result in long lasting dependability to insure the highest profitable return on your investment.

### NOTICE

PLEASE READ THIS ENTIRE MANUAL BEFORE OPERATING THE UNIT. If you have any questions, please contact your BKI Distributor. If they are unable to answer your questions, contact the BKI Technical Service Department, toll free: 1-800-927-6887. Outside the U.S., call 1-864-963-3471.

### Safety

Always follow recommended safety precautions listed in this manual. Below is the safety alert symbol. When you see this symbol on your equipment, be alert to the potential for personal injury or property damage.



### Safety Signs and Messages

The following Safety signs and messages are placed in this manual to provide instructions and identify specific areas where potential hazards exist and special precautions should be taken. Know and understand the meaning of these instructions, signs, and messages. Damage to the equipment, death or serious injury to you or other persons may result if these messages are not followed.

#### DANGER

This message indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

#### WARNING

This message indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.

#### CAUTION

This message indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

#### NOTICE

This message is used when special information, instructions or identification are required relating to procedures, equipment, tools, capacities and other special data.

## Specific Precautions

**⚠ WARNING**

Risk of fire exists if the oil level drops below 5mm of the maximum oil level.

**⚠ WARNING**

Use of oil/shortening older than the manufacturer's recommendations for life of the oil is prone to surge boiling and flash fires. Follow the oil manufacturer's guidelines for the life cycle of oil/shortening.

**⚠ WARNING**

Do not open the drain valve or the fill valve while the fryer is in operation. Serious burns may result.

**⚠ CAUTION**

Follow instructions regarding effects of surge boiling of over-wet foods and proper load size.

**⚠ CAUTION****Equipotential ground plane**

When a high current flows through a conductor, differences in potential appear between the conductor and nearby metallic surfaces near the appliance. As a result, sparks may be produced between the appliance and surrounding metal surfaces. These sparks could cause serious injury, damage, or fire.

BKI provides an Equipotential ground terminal for the connection of a bonding conductor after the installation of the appliance per IEC60417-1. This terminal is located on the inside of the Power Entry Supply box near the Earth connection and is marked with this symbol.

**NOTICE****Full Disconnection**

In accordance with Local and/or National wiring codes, the installer must provide a means of full disconnection under over voltage Category III conditions. An IEC approved cord and plug combination will meet this requirement.

Units not provided with a cord and plug do not meet this requirement. In accordance with Local and/or National wiring codes, the installer must provide the means of full disconnection.

**NOTICE**

The fryer is designed to hold a maximum of 75lbs (34KG) of oil/shortening.

**⚠ WARNING**

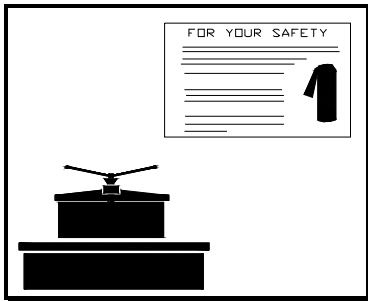
The appliance and its individual shutoff valve must be disconnected from the gas supply system during any pressure testing of that system at test pressures in excess of ½ psi (3.5 kPa).

## Safe Work Practices



### Do Not Store Or Use Anything Flammable Near The Fryer

Your pressure fryer is powered by either natural gas. Do not store or use gasoline or any flammable liquids or vapors near this or any other appliance. Flammable materials will burn easily. Letting any flammable liquid or vapor get too close to the fryer could cause an explosion or fire. Serious injury could result. Examples of flammables that you should not store near the fryer are gasoline, paint, thinners or removers, gas tanks, and cleaning materials.



### Use Gas Safely-- Avoid Danger

Gas can be a dangerous fuel if not handled safely.

Make sure to ventilate the fryer properly. If the fryer is not properly ventilated, carbon monoxide can be released around the fryer. Asphyxiation or suffocation can occur if gas is not ventilated properly.

Before using this appliance for the first time, contact your local gas supplier for instructions about what to do if you smell gas. Post those instructions somewhere near the fryer, so that everyone who uses or works near the fryer knows what to do if they smell gas.



### Beware of High Voltage

This equipment uses high voltage. Serious injury can occur if you or any untrained or unauthorized person installs, services, or repairs this equipment. Always Use an Authorized Service agent to Service Your Equipment.



### Use the Fryer on Noncombustible Floors Only

Make sure your floor is noncombustible. Do not operate your fryer on floors that are wood, carpeted or have rubber mats. Placing your fryer on a combustible floor could cause a fire. Serious injury could result. Examples of noncombustible floors where you can safely place your fryer are concrete, tile, and ceramic.



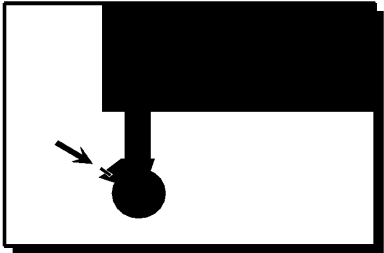
### Keep the Area Around Your Fryer Uncluttered

Make sure to keep the area around your fryer clear of any obstacles. Serious injury can occur if you trip or fall near the fryer. You could be burned by hot shortening that splashes out of the fryer or by falling against the hot metal of the fryer.



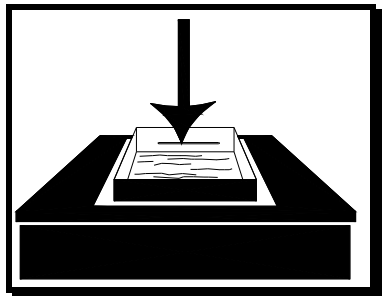
## Keep the Floor Around Your Fryer Clean Of Shortening

Make sure to keep the floor around your fryer clean of shortening and other liquids. Serious injury can occur if you slip near your fryer. You could be burned by hot shortening that splashes out of the fryer or by falling against the hot metal of the fryer.



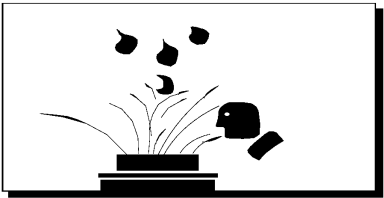
## Keep the Casters Locked

To avoid spilling shortening, keep the casters locked. If any shortening spills near your fryer, clean it up immediately.



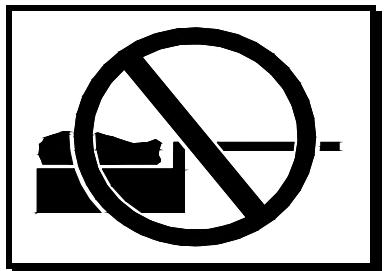
## Do Not Overfill the Fryer with Shortening

Hot shortening and steam may escape and burn you if you put too much shortening in the fryer. Fill the fryer to approximately one inch below the fill marks that are inside the fryer pot. Heat the shortening. If needed, carefully add more shortening to bring the level to the fill marks.



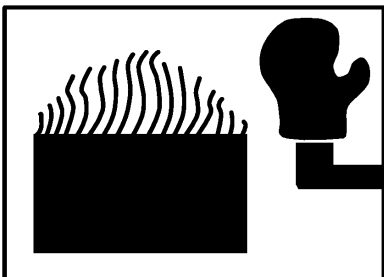
## Do Not Let Any Water Get into The Fryer

Always remove excess moisture from food before placing it into the fryer basket. Water will cause the hot shortening to spatter. You could be burned.



## Do Not Overload the Basket With Food

Hot shortening and steam may escape and burn you if you place too much food in the basket.



## Wear Safe Clothing Appropriate To Your Job

Always wear your insulated mitts when handling the fryer basket or touch any hot metal surfaces. You received a pair of insulated mitts with your fryer. If you lose or damage your mitts, you can buy new ones at your local restaurant equipment supply store or from your local **BKI** Distributor.

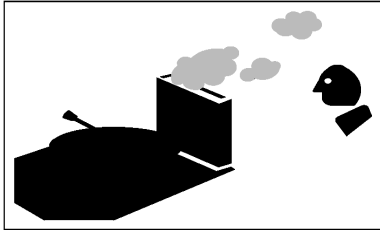
Always wear non-skid shoes when working around the fryer or any other equipment that uses shortening. Never wear loose clothing such as neckties or scarves while operating your fryer. Keep loose hair tied back or



in a hair net while operating your fryer.

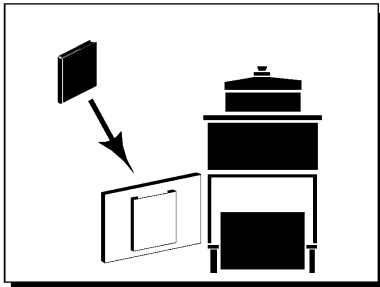
Always wear appropriate personal protection equipment during the filtering process to guard against possible injury from hot oil.

Always wear appropriate personal protection equipment during the boil-out process to guard against possible injury from hot cleaning solution.



### Keep Away From the Vent

Hot steam escapes from the vent continuously when you are using your fryer. You could be burned if you get too close to the vent.



### Keep this manual with the Equipment

This manual is an important part of your equipment. Always keep it near for easy access.

If you need to replace this manual, contact:

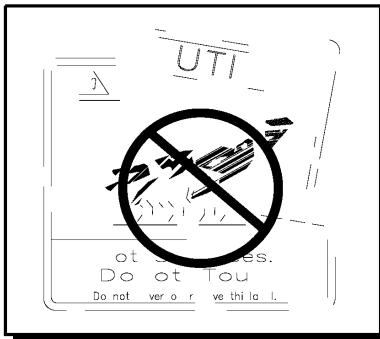
**BKI**  
 Technical Services Department  
 2812 Grandview Drive  
 Simpsonville, S.C. 29680  
 Or call toll free: 1-800-927-6887  
 Outside the U.S., call 864-963-3471



### Protect Children

Keep children away from this equipment. Children may not understand that this equipment is dangerous for them and others.

NEVER allow children to play near or operate your equipment.

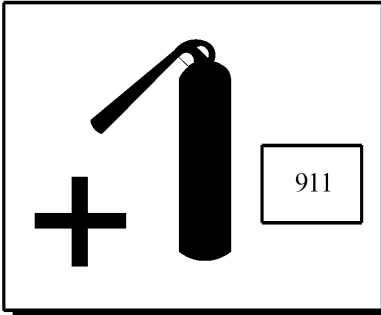


### Keep Safety Labels Clean and in Good Condition

Do not remove or cover any safety labels on your equipment. Keep all safety labels clean and in good condition. Replace any damaged or missing safety labels. Refer to the Safety Labels section for illustration and location of safety labels on this unit.

If you need a new safety label, obtain the number of the specific label illustrated on page 8, then contact:

**BKI**  
 Technical Services Department  
 2812 Grandview Drive  
 Simpsonville, S.C. 29680  
 Or call toll free: 1-800-927-6887  
 Outside the U.S., call 864-963-3471

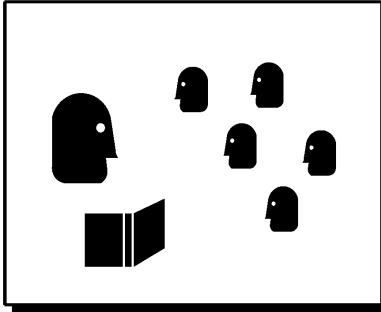


## Be Prepared for Emergencies

Be prepared for fires, injuries, or other emergencies.

Keep a first aid kit and a fire extinguisher near the equipment. You must use a 40-pound Type BC fire extinguisher and keep it within 25 feet of your equipment.

Keep emergency numbers for doctors, ambulance services, hospitals, and the fire department near your telephone.



## Know your responsibilities as an Employer

- Make certain your employees know how to operate the equipment.
- Make certain your employees are aware of the safety precautions on the equipment and in this manual.
- Make certain that you have thoroughly trained your employees about operating the equipment safely.
- Make certain the equipment is in proper working condition. If you make unauthorized modifications to the equipment, you will reduce the function and safety of the equipment.



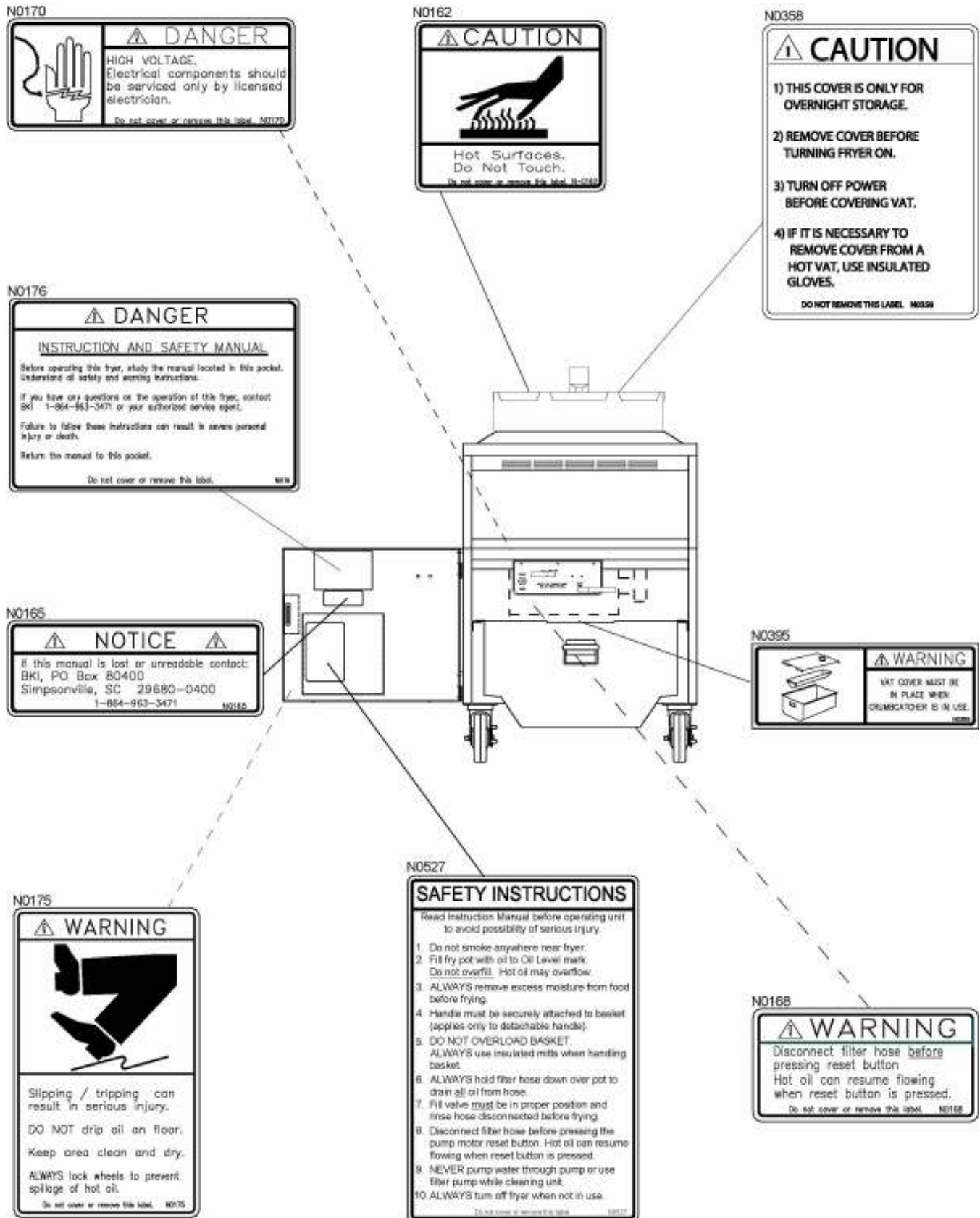
## Do Not Smoke Near The Fryer.

### **⚠️ WARNING**

### Electrical Grounding Instructions:

This appliance is equipped with a three-prong (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle. Do not cut or remove the grounding prong from this plug.

Safety Labels



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## Installation

### **Inspection for Shipping Damage**

It is the owners' responsibility to file all freight claims with the delivering truck line. Inspect all cartons and crates for damage as soon as they arrive. If damage to cartons or crates is found, or if a shortage is found, note this on the bill of lading (all copies) prior to signing.

If damage is found when the equipment is opened, immediately call the delivering truck line and follow up the call with a written report indicating concealed damage to your shipment. Ask for an immediate inspection of your concealed damage item. Packaging material **MUST** be retained to show the inspector from the truck line.

### **Preparation**

There are several things the installer must know before installing the fryer. These are listed below:

- The fryer installation must conform with city or county standards for gas appliances and gas piping. If your area does not have local codes, consult the *National Fuel Gas Code, ANSI Z223.1/NFPA 54*, or the *Natural Gas and Propane Installation Code, CSA B149.1*. In Europe, city and country codes are enforced.
- The fryer must be electrically grounded to conform with the local code of your city or county. If your area does not have local codes, consult the latest version of the *National Electrical Code ANSI/NFPA 70*, or the *Canadian Electrical Code, CSA C22.2*. In EUROPE, city and country codes are enforced.
- A schematic diagram of the unit is glued to the back of either the left or right side panel.
- The Authorized Service Agent that installs your fryer must connect the cord set at the rear of the fryer to an electrical source with a voltage matching that stamped on the name and rating tag. Refer to the wiring diagrams in this manual.
- Make sure a connector is used that complies with the Standard for *Connectors for Movable Gas Appliances, ANSI Z21.69 • CSA 6.16*.
- Make sure a quick-disconnect device is used that complies with the Standard for *Quick-Disconnect Devices for Use With Gas Fuel, ANSI Z21.41 • CSA 6.9*.
- In Europe, the installer must supply the gas supply connector.
- Make sure a restraining device is used that complies with the Standard for *Commercial Gas Ranges, ANSI Z83.11/CGA 1.8* (such as BKI part number FT0279) to guard against transmission of strain to the connector.
- Retain the manual for future reference.

### **Location and Clearance**

Install your fryer in a well-ventilated area. This will ensure that the gas burns properly and will help prevent any fires. When deciding on a location for your fryer, remember the following:

- All gas-burning appliances need enough fresh air for combustion.
- Locate the fryer where it can be vented into an adequate exhaust hood. Your local gas utility must approve your ventilation system. Consult a ventilation or heating company to help you design an adequate system that meets ventilation codes and standards for your city or county. In Europe, install according to local codes.
- Keep the fryer away from any combustibles such as curtains, wood paneling, boxes, or towels. The flue riser at the rear of the fryer should also be kept away from any flammable material.

- Use this fryer on non-combustible flooring only. Examples of non-combustible floors where you can safely locate your fryer are concrete, tile, and ceramic. Minimum clearance from combustible and non-combustible construction is 0 inches from the sides and 6 inches from the flue riser at the rear. **DO NOT** locate your fryer on floors that are wood, have rubber mats, or, are carpeted. In Europe, no less than 6" (15.24 cm.) from the rear and 0" to the sides of non-combustible walls.
- Keep the work area around the fryer free of objects that might block fresh air or that might cause a fire.
- Do not attach an extension to the exhaust stack. This may stop the burner from operating properly, cause the burner to go off, or, cause other dangerous malfunctions. It may also cause a strong draft in the room. A draft can interfere with the burner.
- Do not locate the fryer near strong drafts. Keep the fryer away from doors that are opened and closed frequently.

## Installation Procedure

### **WARNING**

Ensure that an authorized BKI service agent installs the fryer. An authorized BKI service agent should be a qualified gas service technician and a licensed electrician.

### **DANGER**

Failure to restrain the fryer could allow it to move, causing hot shortening to spill out, or a possible break in the gas line causing an explosive condition.

1. Install an ANSI Z83.11/CGA 1.8 compliant restraining device (such as BKI part number FT0279) per the instructions below:
  - Mount the wall attachment according to the restraining device manufacturer instructions.
  - Attach the spring-loaded hook on the restraining device to the eye-bolt mounted to the fryer then attach the other spring-loaded hook to the wall attachment.



### **WARNING**

Use appliance connectors and quick-disconnect devices that are in compliance with the applicable ANSI and CSA standards.

2. Attach an appliance connector to the fryer according to the instructions provided by the appliance connector manufacturer.
3. Connect the gas supply to the fryer. In Europe, the gas supplier must provide the gas hookup connecting line.
4. Lock the casters so the fryer does not move. Every time you use the fryer, make sure the casters are locked so the fryer cannot move. (In Canada: refer to caster codes CAN 1-6.10 M88 and CAN 1-6.9 M79.)

5. Turn on the gas at the gas supply valve.
6. Check for gas leaks from the gas supply to the fryer gas valve using a soap and water solution. If a leak is detected, tighten the connection where the leak occurs.
7. Connect fryer wiring according to the appropriate wiring diagram in this manual.
8. Apply power to the fryer.
9. Perform the following procedures provided in the Startup and Checkout section of the SV9401/SV9402/SV9403, SV9501/SV9502/SV9503, SV9601/SV9602 SmartValve™ SYSTEM CONTROLS Installation Instructions (69-1004-2). Refer to **Error! Reference source not found.**
  - Gas Leak Test
  - Check and Adjust Gas Input Burner Ignition

### Initial Test and Adjustment

1. Open the gas supply valve.
2. Place the DRAIN handle in the CLOSED position.
3. Fill pot with shortening to the fill mark.

#### **WARNING**

Risk of fire exists if the oil level drops below the minimum oil level. The level of oil within the pot must not fall below 5mm of the maximum oil level.

#### **WARNING**

Use of oil/shortening older than the manufacturer's recommendations for life of the oil is prone to surge boiling and flash fires. Follow the oil manufacturer's guidelines for lifecycle of oil/shortening.

#### **CAUTION**

Overfilling the fryer pot with shortening could lead to serious injury. Ensure that the fryer pot is filled with shortening only to the fill mark when shortening is hot. Do not use any shortening other than what is specified in this manual and do not overfill the fryer pot.

#### **CAUTION**

The fryer has a maximum temperature setting of 375° F/190° C (for BLG and BLG-F) or 390° F/200° C (for BLG-FC). Do not use oil/shortening with a flashpoint less than 554° F (290° C)

#### **NOTICE**

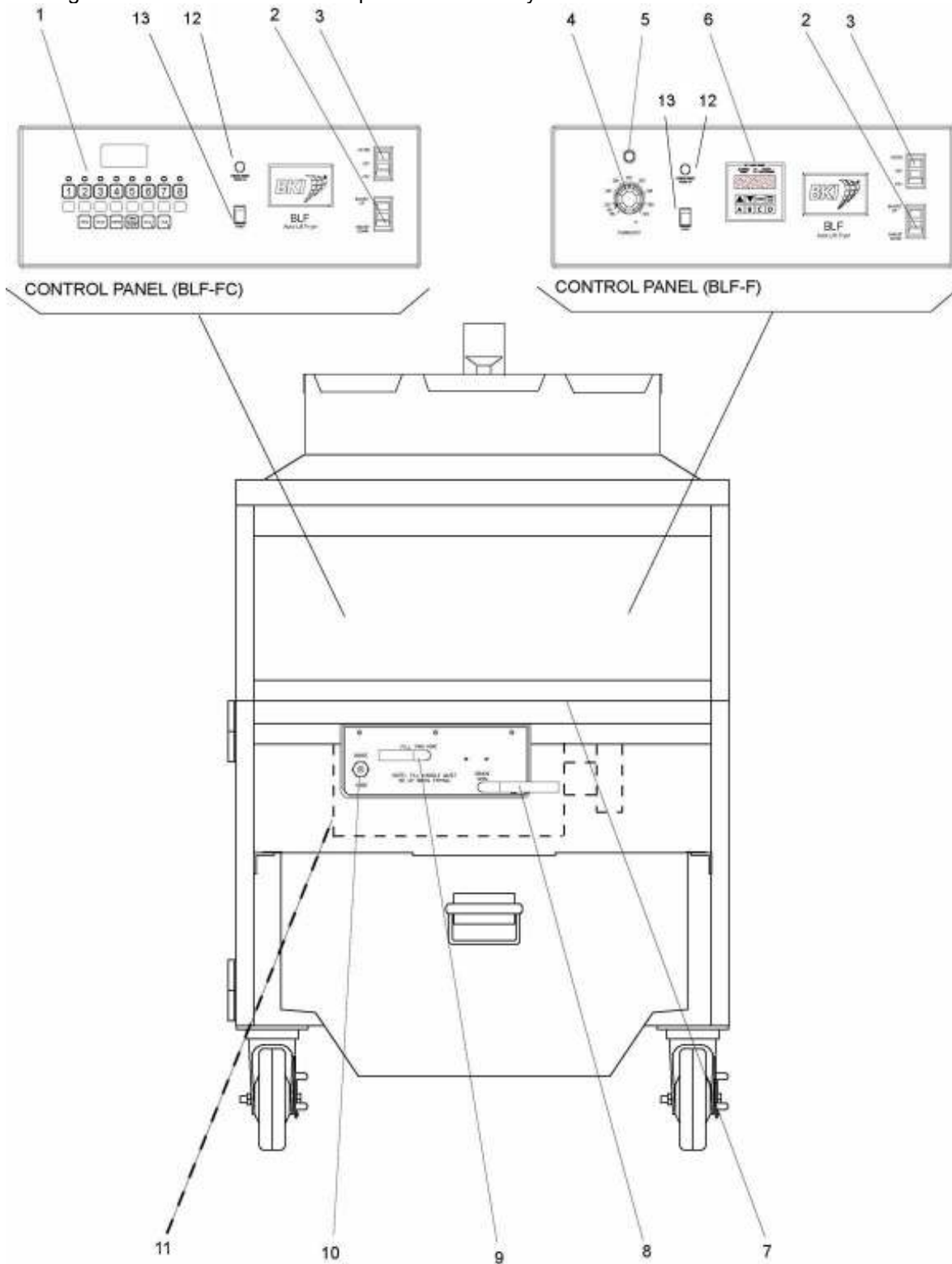
Use only high-quality shortening that has low moisture content, a high smoke point and no additives.

4. Place the gas control **ON/OFF** switch in the **OFF** position.
5. Place the **FILTER/OFF/FRY** switch in the **OFF** position.
6. Before you turn on the gas, wait at least five minutes to allow any gas that may have accumulated in the burner compartment to escape.
7. Place the gas control **ON/OFF** switch in the **ON** position.
8. Place the **FILTER/OFF/FRY** switch to the **FRY** position. The shortening should begin to heat and begin to reach the fill mark inside the pot. Add more shortening as required to reach the fill mark.

# Operation

## Controls and Indicators

Refer to the figure and table below for an explanation of the fryer's controls and indicators.



Item	Description	Function
1	Computer	Used to program the cooking computer and activate the programs
2	Momentary Switch	BASKET UP – Momentarily pushing the switch to this position causes the lift mechanism to rise. This is enabled only when the FILTER/OFF/FRY switch is in the FRY position.  BASKET DOWN – Momentarily pushing the switch to this position causes the lift mechanism to lower. This is enabled only when the FILTER/OFF/FRY switch is in the FRY position.
3	Rocker Switch	FILTER – When placed in this position, power is applied to the motor and shortening is pumped into the pot directly or through the fill hose.  OFF – When placed in this position, power is removed from the pump motor, heating elements and lift mechanism.  FRY – When placed in this position, power is supplied to the thermostat (or computer), heating elements and lift mechanism.
4	Thermostat Knob	Used to set the temperature of the shortening.
5	Thermostat Light	Illuminates to indicate that the elements have power applied to them.
6	Digital Timer	The digital timer consists of an LED, display, beeper and 8 buttons described below:
	LED indicator	Prior to the start of a timing cycle the LED will be OFF. When running a timing cycle the LED will flash. At the end of a timing cycle the LED will turn ON steady. When idle the LED is off.
	TIME SELECT (2 arrow buttons)	Two arrow buttons on the front panel are used to set the time. Hold the UP ARROW button down to increase the time. The longer the button is held down, the faster the rate at which the time will increase. The DOWN ARROW button is used in the same manner as the UP ARROW button except it will cause the time to decrease. The time is increased or decreased in 30-second increments.
	START/STOP button	<b>Starting the Timer</b> - Pressing this button while the timer is not active will cause the timer to begin counting down the time on the display. <b>Stopping the Timer</b> - Pressing this button while the timer is active will stop the timer from counting down and display the remaining time. Time cannot be changed with the TIME SELECT buttons at this point. If this button is pressed again the timer will continue counting down from the point it was stopped. <b>Resetting the Timer</b> - Pressing and holding this button for longer than two (2) seconds will reset the timer and the display will return to the original starting time. At this point, time can be changed using the TIME SELECT buttons or the preset buttons. <b>Canceling The STIR OIL Function</b> - Pressing this button cancels the STIR OIL function while it is active.
	ALARM button	This button allows the user to set an elapsed time at which the internal alarm will sound during a cycle. The time is set by pressing and holding the ALARM button while using the UP and DOWN arrows to change the time. The controller will limit the alarm time to be less than the currently programmed interval cycle time. The default alarm time is 0:00 which disables it. The ALARM time is saved on power down in the same manner as the last interval time. When a time cycle is running and the alarm time has elapsed the internal alarm will sound for 10 seconds. For example, a cycle time 10:00 and alarm time of 2:00 would cause the alarm to sound for 10 seconds once the controller has counted down from 10:00 to 8:00. This button is also used to cancel the STIR OIL function.



Item	Description	Function
6	A, B, C, D preset buttons	These buttons are used to save and recall preset cycle and alarm times, saving operator time and minimizing error when changing interval cycle times and alarm times. To save the current interval and alarm times into one of the preset locations, press and hold the A, B, C, or D preset button for 2 seconds and the controller will double chirp to indicate the times have been saved. To recall any preset time, press and quickly release the appropriate button and the time values are loaded and displayed.
	Beeper	A beeper sounds when the timer counts down to 0. Pressing the START/STOP button stops the beeper and resets the timer causing the display to return to the original starting time. At this point, time can be changed using the TIME SELECT buttons or the preset buttons. The beeper will also sound for 10 seconds if the alarm time has elapsed during a timing cycle. When the STIR OIL function begins the beeper will sound until the ALARM or START/STOP button is pressed.
	Display	Used to display the time. It also displays the words "STIR" then "OIL" in .5 second intervals until the ALARM or START/STOP button is pressed.
7	High Limit Reset Switch	Located under the control panel. If the heating elements inside the pot reach an unsafe temperature, power is automatically removed from the control panel, lift mechanism and elements. Pressing this switch returns power to the control panel, lift mechanism and elements.
8	Drain Lever	DRAIN OPEN – When placed in this position, the drain valve opens and shortening drains into the vat. Also power is removed from the control panel and gas system.  DRAIN CLOSED – When placed in this position, the drain valve is closed to prevent shortening from draining into the pot. Also power is restored to the control panel and gas system.
9	Fill Lever	FILL THRU POT – When placed in this position, shortening will be pumped from the vat to the pot if the rocker switch is in the FILTER position.  FILL THRU HOSE – When placed in this position, shortening will be pumped from the vat to the pot via a fill hose if the rocker switch is in the FILTER position.
10	Rinse Hose Connector	Used to connect the Rinse hose for cleaning and refilling the pot.
11	Pump Motor Reset Switch	If the motor overheats while filtering, it will automatically shut off. Wait 15 minutes to allow motor to cool before pressing this switch.
12	Ignition Lock-out Light	Illuminates when the Ignition Module locks out during ignition.
13	Reset Switch	Used to reset the Ignition Module when it locks out during ignition.

## Care of the Shortening

Solid shortening should always be returned to the filter vat while in the liquid state. If this is not done, it will have to be heated to a liquid state. When using solid shortening, the fryer must be equipped with a pump heater. After filtering with solid shortening, the filter lines must be completely emptied of shortening. The pump heater will take care of any residual shortening in the pump, but cannot melt all of the shortening in the filter lines. The pump heater accessory may be purchased separately from BKI.

To extend the life of your shortening, for the best possible flavor in your products, and for economy and efficiency of operation, we urge you to follow these recommendations:

1. Use only high-quality frying shortening without additives, of low moisture content and with a high smoke point.
2. Press excess moisture from products before breading. The more moisture released in the shortening, the quicker it will break down.
3. Filter at least once a day or once every three loads during frequent cooking.
4. Clean any residue or crust formations from the sides and bottom of the pot each time you filter the shortening.
5. Add fresh shortening as needed to maintain the proper shortening level **TO THE FILL MARK ON THE POT WALL**.
6. **DO NOT HOLD SHORTENING AT HIGH TEMPERATURE** when the fryer is not in use. If you expect an elapsed time of one hour or more between cooking, close the lid and press the "0" button on the BLG-FC model. On Models BLG and BLG-F, set the thermostat to 150° F.
7. Shortening changes are determined by the quantity and type of food prepared. Excessive boiling and foaming are definite signs of shortening breakdown.
8. After you have finished frying for the day, filter the shortening and replace the filter pad. Also, thoroughly clean the pot of sediment and crumbs and empty the condensate pan.
9. **IMPORTANT!** Before the first cooking operation each day, stir the shortening freely while it is heating to provide a balanced shortening temperature for excellent results with the first cooking. Failure to do this can result in a crusty skin on the product surface with an undercooked product internally. In addition, in some cases, failure to stir the shortening while it is initially heating may cause the HI-LIMIT safety to disable the power due to a false overshoot condition.

## BLG and BLG-F Operation

### Start-Up (BLG and BLG-F)

1. Make sure the main drain valve is closed.
2. Fill pot with shortening to the fill mark.

**WARNING**

Risk of fire exists if the oil level drops below the minimum oil level. The level of oil within the pot must not fall below 5mm of the maximum oil level.

**WARNING**

Use of oil/shortening older than the manufacturers recommendations for life of the oil is prone to surge boiling and flash fires. Follow the oil manufacturers guidelines for lifecycle of oil/shortening.

**CAUTION**

Overfilling the fryer pot with shortening could lead to serious injury. Ensure that the fryer pot is filled with shortening only to the fill mark when shortening is hot. Do not use any shortening other than what is specified in this manual and do not overfill the fryer pot.

**CAUTION**

The BLG/BLG-F fryer has a maximum temperature setting of 375° F (190° C). Do not use oil/shortening with a flashpoint less than 554° F (290° C)

**NOTICE**

Use only high-quality shortening that has low moisture content, a high smoke point and no additives.

3. Place the gas control **ON/OFF** switch in the **ON** position.
4. Once the fryer is filled with shortening, place the **FILTER/OFF/FRY** switch in the **FRY** position. Unless the STIR OIL function is operating in the –OFF mode, the digital timer activates a STIR OIL function and begins an internal six minute countdown (not displayed). At the end of the internal countdown, the display shows the words “STIR” then “OIL” in .5 second intervals and the alarm sounds. Depress the **ALARM** button and stir the shortening freely while it is heating.

**IMPORTANT!** Before the first cooking operation each day, stir the shortening freely while it is heating to provide a balanced shortening temperature for excellent results with the first cooking. Failure to do this can result in a crusty skin on the product surface with an undercooked product internally. In addition, in some cases, failure to stir the shortening while it is initially heating may cause the HI-LIMIT safety device to disable the power due to a false overtemperature condition.

5. Set the thermostat to the desired cook temperature. The temperature light will go on. When the temperature is reached, the light will go off. The light will continue to cycle on and off as the fryer maintains the set temperature.
6. Press and hold the **TIME SELECT** arrow buttons on the digital timer until the desired cook time is displayed or recall a preset time by quickly pressing the appropriate preset button.
7. The shortening will heat and begin to reach the fill mark inside the pot. Add more shortening as required to reach the fill mark.

## Cooking (BLG and BLG-F)

**⚠ WARNING**

Do not open the drain valve or the fill valve while the fryer is under pressure. Serious burns may result.

1. Ensure that the Start-Up procedures have been performed.
2. When frying chicken, lower the basket into the shortening by depressing the basket switch to the BASKET DOWN position.

**⚠ WARNING**

Hot shortening may splash out of the pot causing severe injury when dropping chicken into pot. Carefully drop pieces of chicken into pot to prevent shortening splashes.

3. Carefully drop the chicken in the shortening one piece at a time starting with breasts and thighs. The fryer is designed to accommodate 48 pieces of chicken.

**⚠ DANGER**

Failure to use the insulated mitts will result in severe injury. Always use the insulated mitts when handling the hot fry basket.

4. Activate the timer by pressing the START/STOP button on the digital timer or press the recipe button desired on the computer control. The control will begin to count down.

**⚠ WARNING**

Hot shortening may splash out of the pot causing severe injury when lowering basket into pot. Carefully lower basket into pot to prevent shortening splashes.

5. At the end of the frying cycle, the digital timer (or computer) beeper will sound and the basket will automatically rise to its top position. Press the START/STOP button on the digital timer or press the recipe button on the computer.
6. Allow the basket to drain.

**⚠ DANGER**

Failure to use the insulated mitts will result in injury. Always use the insulated mitts when handling the hot fry basket.

7. Remove basket from the lift and empty carefully.
8. Return the basket to the lift.
9. Remember to filter the shortening at least every third frying cycle load. Refer to the procedure in this manual. Also filter the shortening and clean the fryer at the end of each day. If you do not plan to use the fryer for an hour or more, turn the thermostat down to 150° F and close the lid.
10. When you have finished frying for the day, turn the **FILTER/OFF/FRY** switch to the **OFF** position.

## BLG-FC Operation

### System Programming

Use the following figure and table to set options that apply to each product programs.

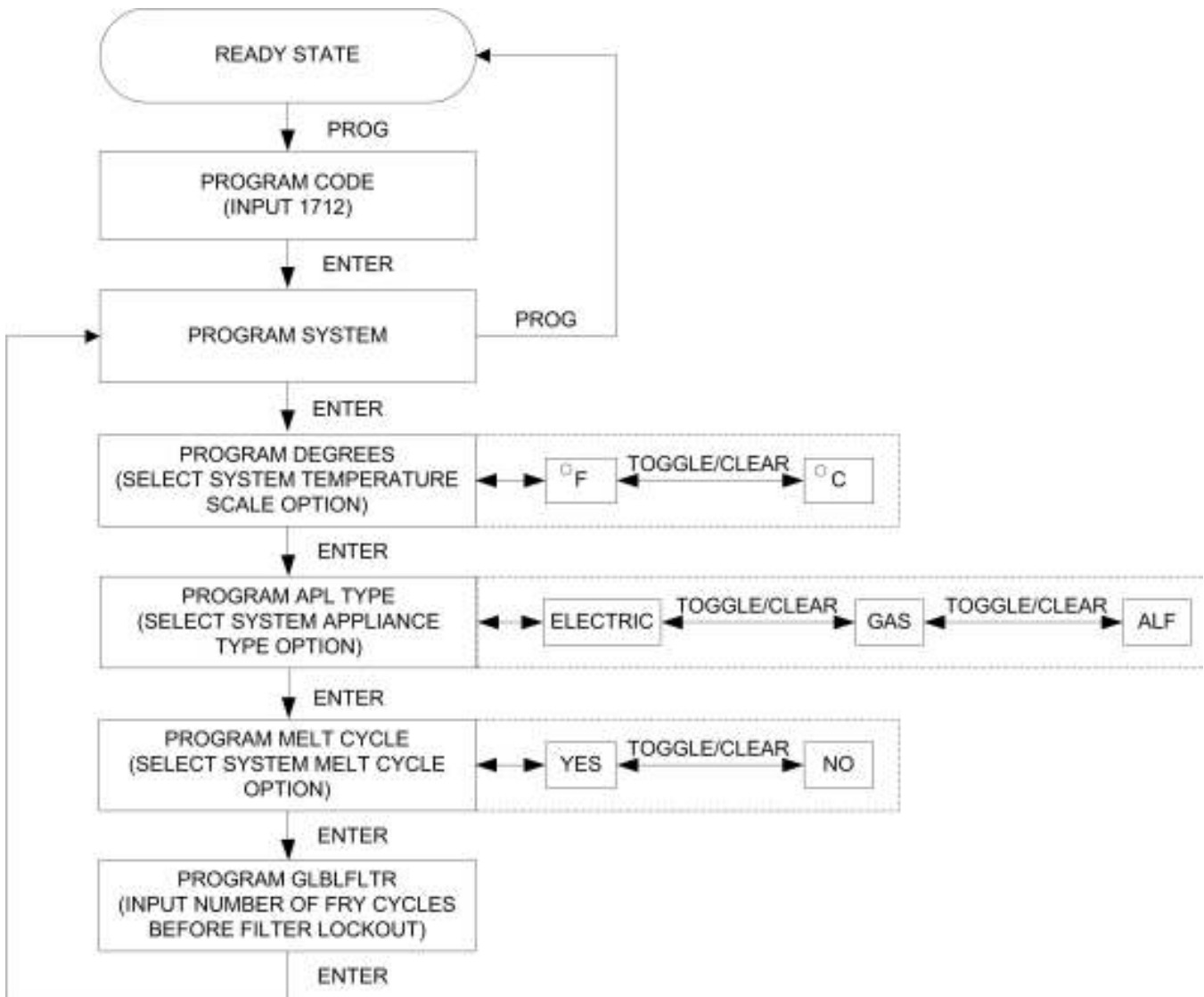


Figure 1. System Programming Sequence

Table 1. System Programming Procedure

STEP	ACTION	DISPLAY	COMMENTS
1	Press the <b>FILTER/OFF/FRY</b> switch to <b>FRY</b> .	LOW	
2	Press PROG on the keypad.	PROGRAM CODE	
3	Input 1712 and ENTER.	PROGRAM SYSTEM	
4	Press ENTER.	PROGRAM DEGREES °F	This command allows you to choose the temperature scale option you want to use. The display will show either show °F or °C.
5	Press TOGGLE/CLEAR until the desired option is displayed.	PROGRAM DEGREES X	X refers to the temperature scale you have chosen.
6	Press ENTER.	PROGRAM APL TYPE ELECTRIC	This command allows you to choose the appliance type you are using. The display may show ELECTRIC, GAS OR ALF.
7	Press TOGGLE/CLEAR until the desired option is displayed.	PROGRAM APL TYPE X	X refers to the appliance type you have chosen.
8	Press ENTER.	PROGRAM MELTCYCL YES	This command allows you to set the melt cycle option. This is normally set to yes if you are using solid shortening. The display will show either YES or NO.
9	Press TOGGLE/CLEAR until the desired option is displayed.	PROGRAM MELTCYCL X	X refers to the melt cycle option chosen.
10	Press ENTER.	PROGRAM GLBLFLTR 0	This command allows you to specify the total number of fry cycles to complete among all product programs before a message is displayed reminding you to filter the shortening (filter lockout).
11	Press TOGGLE/CLEAR and input the number of fry cycles you want to complete among all product programs before enabling filter lockout.	PROGRAM GLBLFLTR X	X refers to the number of program cycles you want to complete among all product programs before filtering the shortening.
12	Press ENTER.	PROGRAM SYSTEM	
13	Press PROG to exit the programming mode.	LOW	

## Product Programming

Use the following figure and table to set a maximum of eight product programs. The product programs must be set before cooking can begin.

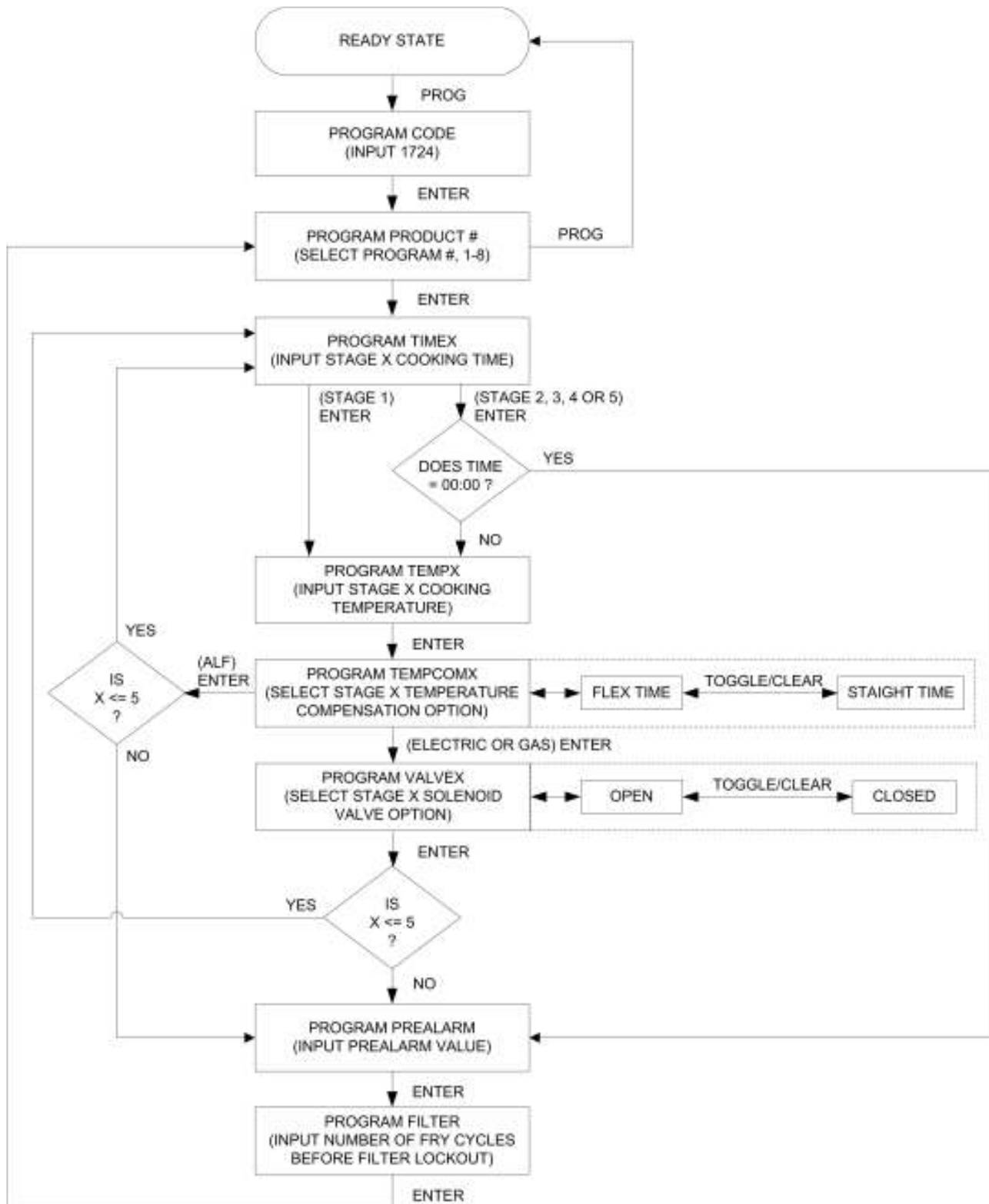


Figure 2. Product Programming Sequence

Table 2. Product Programming Procedure

STEP	ACTION	DISPLAY	COMMENTS
1	Press the <b>FILTER/OFF/FRY</b> switch to <b>FRY</b> .	LOW	
2	Press PROG on the keypad.	PROGRAM CODE	
3	Input 1724 and press ENTER.	PROGRAM PRODUCT #	
4	Select the program product number (1-8).	PROGRAM PRODUCT X	X refers to the program number you selected.
5	Press ENTER.	PROGRAM TIME1 00:00	This command allows you to specify the cooking time for this stage. The time displayed may be a previously programmed value.
6	Press TOGGLE/CLEAR and input the number of minutes you want to cook.	PROGRAM TIME1 XX:XX	XX:XX refers to the number of minutes you input.
7	Press ENTER.	PROGRAM TEMP1 000 °F	This command allows you to specify the cooking temperature for this stage. The temperature displayed may be a previously programmed temperature. The temperature scale may also display °C depending on the system option that is set.
8	Press TOGGLE/CLEAR and input the cooking temperature for product to be cooked.	PROGRAM TEMP1 XXX °F	XXX refers to the cooking temperature you input.
9	Press ENTER.	PROGRAM TEMPCOM1 FLEX TIME	This command enables you to select whether or not time is allowed for the fryer to recover from temperature loss while cooking during this stage. The FLEX TIME option will allow the fryer to recover from temperature loss.
10	Press TOGGLE/CLEAR until the desired option is displayed.	PROGRAM TEMPCOM1 X	X refers to the temperature compensation option selected.
11	Press ENTER.	PROGRAM VALVE1 CLOSED	This command allows you to specify whether the solenoid valve will be open or closed during this stage.
12	Press TOGGLE/CLEAR until the desired option is displayed.	PROGRAM VALVE1 X	X refers to the solenoid valve option selected. OPEN is used for Models <b>ALF</b> and <b>BLF Automatic Lift</b> fryers. If your program requires the solenoid valve to be closed while cooking, choose the CLOSED option.



STEP	ACTION	DISPLAY	COMMENTS
13	Repeat steps 5-12 when programming stages 2, 3, 4 and 5 for Electric and Gas appliance types.  Repeat steps 5-10 when programming stages 2, 3, 4 and 5 for an ALF appliance type.		The time and temperature of each stage has to be less than the preceding stage.
14	Press ENTER.	PROGRAM PREALARM 00:00	This command allows you to specify the number of minutes before the end of the cooking time (for each stage) until the alarm sound. The prealarm value displayed may be a previously programmed value.
15	Press TOGGLE/CLEAR and input the prealarm minutes.	PROGRAM PREALARM XX:XX	XX:XX refers to the prealarm minutes you input.
16	Press ENTER.	PROGRAM FILTER 0	This command allows you to specify the number of fry cycles you want to complete for this program before a message is displayed reminding you to filter the shortening (filter lockout). The filter value displayed may be a previously programmed value.
17	Press TOGGLE/CLEAR and input the number of fry cycles you want to complete before enabling filter lockout.	PROGRAM FILTER X	X refers to the number of program cycles you want to complete before filtering the shortening.
18	Press ENTER.	PROGRAM PRODUCT #	
19	If you wish to input more programs, proceed by pressing the next program number and follow steps 5 through 18 or press PROG to exit the programming mode.		

## Start-Up (BLG-FC)

1. Make sure the main drain valve is closed.
2. Fill pot with shortening to the mark.

### **WARNING**

Risk of fire exists if the oil level drops below the minimum oil level. The level of oil within the pot must not fall below 5mm of the maximum oil level.

### **WARNING**

Use of oil/shortening older than the manufacturers recommendations for life of the oil is prone to surge boiling and flash fires. Follow the oil manufacturers guidelines for lifecycle of oil/shortening.

### **CAUTION**

Overfilling the fryer pot with shortening could lead to serious injury. Ensure that the fryer pot is filled with shortening only to the fill mark when shortening is hot. Do not use any shortening other than what is specified in this manual and do not overfill the fryer pot.

### **CAUTION**

The fryer has a maximum temperature setting of 375° F/190° C (for ALF and ALF-F) or 390° F/200° C (for ALF-FC). Do not use oil/shortening with a flashpoint less than 554° F (290° C)

### **NOTICE**

Use only high-quality shortening that has low moisture content, a high smoke point and no additives.

3. Place the **FILTER/OFF/FRY** switch to the **FRY** position. The question "Is the Fry Pot filled – If yes press ENTER" will appear on the computer display. The shortening will heat and begin to reach the fill mark inside the pot.
4. Add more shortening as required to reach the fill mark. Once the oil reaches the fill mark, press the **ENTER** button. The computer will display "STIR OIL" and automatically enter the STIR OIL mode. In this mode the computer will heat the oil to 255°F and hold that temperature.
5. Stir the oil freely while it is heating. Press the **0** button when finished stirring the oil.

**IMPORTANT!** Before the first cooking operation each day, stir the shortening freely while it is heating to provide a balanced shortening temperature for excellent results with the first cooking. Failure to do this can result in a crusty skin on the product surface with an undercooked product internally. In addition, in some cases, failure to stir the shortening while it is initially heating may cause the HI-LIMIT safety device to disable the power due to a false overtemperature condition.

## Cooking (BLG-FC)

1. Ensure that the Start-Up procedures have been performed.
2. Press the desired program number on the keypad. The computer will still display "**LOW**". The fryer will begin to heat to the temperature that has been factory preset. When "**READY**" appears on the display, the fryer is up to the desired temperature.
3. When frying chicken, lower the basket into the shortening by depressing the basket switch to the **BASKET DOWN** position.

### **WARNING**

Hot shortening may splash out of the pot causing severe injury when dropping chicken into pot. Carefully drop pieces of chicken into pot to prevent shortening splashes.

- Carefully drop the chicken in the shortening one piece at a time starting with thighs and drumsticks. The fryer is designed to accommodate 48-50 pieces of chicken.
- Press the desired program number a second time. The red light above the program number will flash and the computer will display "**COOK**". This will start a countdown in minutes and seconds until the end of the cycle.
- At the end of the cooking cycle, the computer will display "**DONE**" and signal with a series of audible "beeps". The basket will automatically rise out of the pot. Press the selected number once again to stop the cook cycle.
- Allow the basket to drain.



Failure to use the insulated mitts will result in injury. Always use the insulated mitts when handling the hot fry basket.

- Remove basket from the lift and empty carefully.
- Return the basket to the lift.
- Remember to filter the shortening at least every third frying cycle load. Refer to the procedure in this manual. Also filter the shortening and clean the fryer at the end of each day.
- Press the **0** button. **Idle 255°F** will display. This will automatically hold the shortening at a cooler temperature.
- To escape the idle mode, press the **0** button again and the fryer will heat to its original temperature.

When you have finished frying for the day, turn the **FILTER/OFF/FRY** switch to the **OFF** position.

### **Operation After Gas or Power Outage**

The fryer may shut off automatically if the gas supply is interrupted or the power goes out. If either of these conditions occur you should perform the following procedure:



For your safety, if the gas supply stops, or, if the power goes out, make sure to wait for at least five minutes before restarting your fryer. This allows time for any unburned gas to dissipate. (LP gas may take longer than five minutes.) If you smell gas, do not start your fryer.

- Place the **FILTER/OFF/FRY** switch in the **OFF** position.
- Wait at least five minutes to allow any gas that may have accumulated in the burner compartment to escape.
- Follow normal operating procedures once the power or gas is restored.

### **Normal Shutoff**

- Place the **FILTER/OFF/FRY** switch in the **OFF** position.
- Wait at least five minutes to allow any gas that may have accumulated in the burner compartment to escape.

## Maintenance

### **CAUTION**

Failure to comply with the maintenance below could result in a serious accident.

Do not over-tighten the spindle assembly. (Only tighten to hold pressure.)

Your fryer will need periodic maintenance and servicing. We strongly suggest that you use only a service company that is authorized by BKI to do this work.

The restraining device must always be connected when the appliance is in service. Disconnect for movement, such as servicing or cleaning. Reconnect the restraint when fryer has been returned to its normal position.

### Scheduled Maintenance

Use the following table to help manage scheduled maintenance activities.

FREQUENCY	PERFORMED BY	PART	ACTIVITY
Daily	User	Filter Pad	Replace filter pad. Refer to the procedure in this manual.
	User	Filter system	Filter the shortening using the procedure in this manual.
Weekly	User	Fryer Pot	Perform the boil-out procedure in this manual.
Every 6 Months	Authorized BKI service agent	Connections, Fittings	Check for leakage while oil is pumping.
	Authorized BKI service agent	Fryer Pot Fittings/Connections	Check for leakage around fry pot top deck and fittings (heaters, hi-limit, thermostat, etc.).

### Filtering Procedure

Breaded foods require frequent filtering. An excess amount of breading left in the fryer pot will reduce the life of the shortening. We recommend the shortening be filtered after every three frying cycle loads. If the shortening starts to show signs of foaming or has a bad taste, do not use it. The fryer pot should be cleaned before refilling with new shortening. Best results for filtering are obtained while the shortening is hot. You should filter at the end of every business day.

### **WARNING**

Always wear appropriate personal protection equipment during the filtering process to guard against possible injury from hot oil.

1. Set the **FILTER/OFF/FRY** switch to **OFF**.
2. Make certain that the filter pad is clean and not torn.

**IMPORTANT:** Make certain the vat cover is properly positioned underneath the drain valve. Also make certain the filter vat and filter screen is under the main drain valve before starting the filtering process.

3. Move the **DRAIN** handle slowly to the **OPEN** position so that the shortening starts to flow evenly. This is to prevent excessive splashing of hot shortening.
4. When the pot is empty, place the **DRAIN** handle in the **CLOSED** position.

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**To refill the pot automatically, use the steps below:**

- Place the FILL handle to the THRU POT position.
- Position the **FILTER/OFF/FRY** switch to **FILTER** and shortening will automatically pump into the pot.
- Let the filter continue to pump the shortening until the fill mark in the fryer pot is reached or until air starts bubbling through the shortening.
- As soon as air is seen in the shortening, first place the FILL handle to the THRU HOSE position then position the **FILTER/OFF/FRY** switch to **OFF** to prevent shortening degradation and prevent the filter pump and lines from filling up with shortening.
- Add new shortening if the fill mark has not been reached.

**To refill the pot through the rinse hose, use the steps below:**

- Make certain that the rinse hose is connected to rinse hose connector.
- Holding the hose by the handle, place hose nozzle inside the pot.
- Position the FILL lever in the THRU HOSE position.
- Position the **FILTER/OFF/FRY** switch to **FILTER** and shortening will automatically pump into the pot.
- Let the filter continue to pump the shortening until the fill mark in the fryer pot is reached or until air starts bubbling through the shortening.
- As soon as air is seen in the shortening, position the **FILTER/OFF/FRY** switch to **OFF** to prevent shortening degradation.
- Add new shortening if the fill mark has not been reached.

## Boil-Out Procedure

Boil-outs remove microscopic particles of carbon that build up on the walls of the fryer pot. To avoid eventual carbon build-up, off flavors, and shortening breakdown, boil-outs should be done once a week on each fryer following these procedures.

**⚠ WARNING**

Always wear appropriate personal protection equipment during the boil-out process to guard against possible injury from hot cleaning solution.

1. Position the **FILTER/OFF/FRY** switch to **OFF**.
2. Drain the clean shortening into an adequate storage container. (**Allow the shortening to cool to room temperature before attempting storage.**)
3. **CLOSE** the drain and fill the fryer pot with **HOT** water to the shortening level fill mark. Do not overfill by allowing the water level higher than the fill mark.
4. Add ½ cup (4 ounces) of **BKI** cleaner.
5. Wash down the inside of the pot with the pot brush to loosen the sediment.

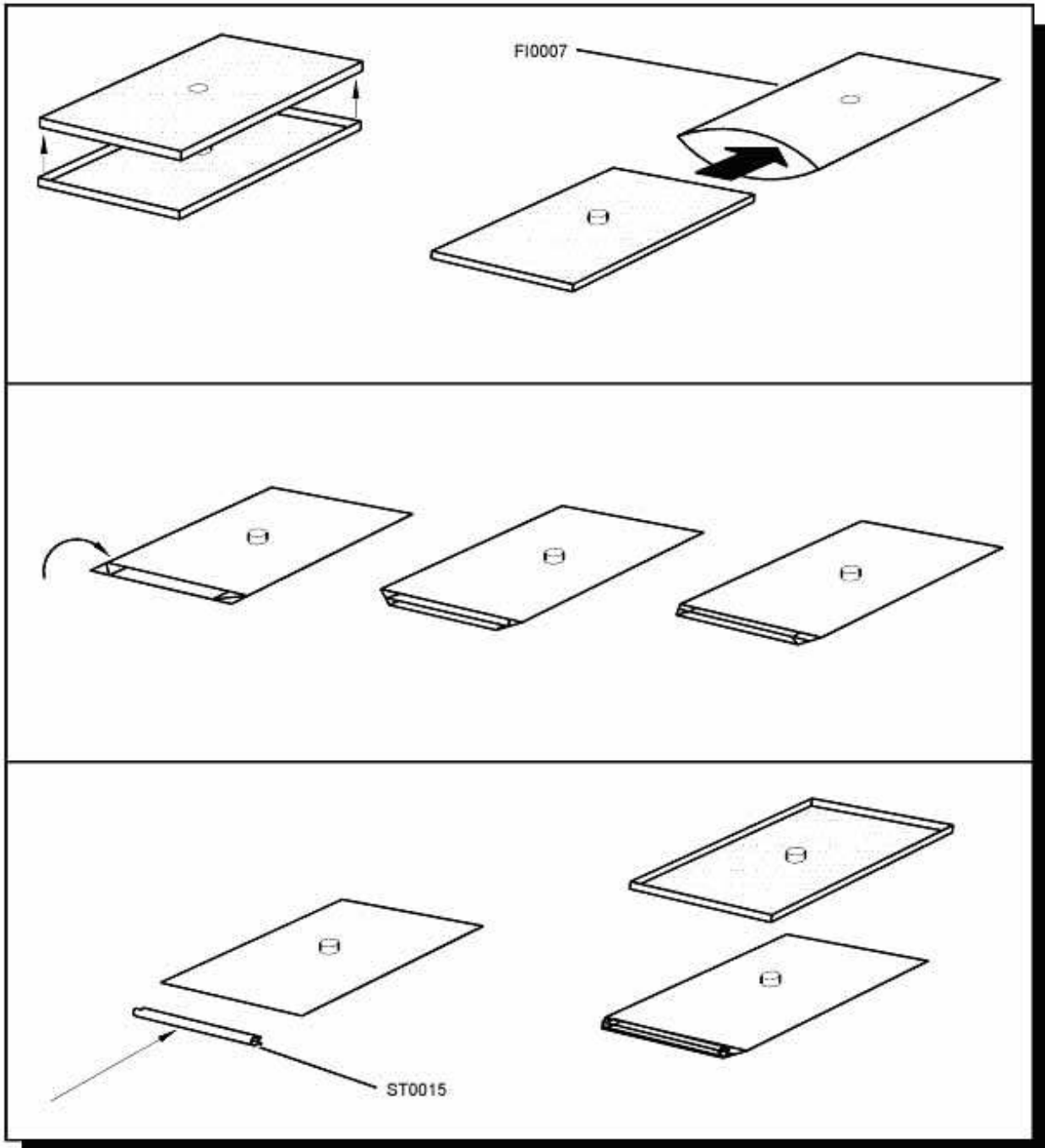
6. Set the temperature of the solution as follows:
    - **BLF-F** – Place the **FILTER/OFF/FRY** switch to the **FRY** position. Press the **START/STOP** button on the digital timer to cancel the STIR OIL function unless the STIR OIL function is operating in the – OFF mode. Set the thermostat to a temperature of 190° F.
    - **BLF-FC** – Position the **FILTER/OFF/FRY** switch to **ON**. Press PROG (program), type 1733, and press ENTER. The fryer pot will heat to a temperature of 190° F during the CLEAN cycle to allow the CLEAN function to be performed. NOTE: The fryer pot must be below 255° F to enter the CLEAN mode.
  7. Bring the cleaning solution to a rolling boil and maintain the boil for 5 minutes.
  8. Place the **FILTER/OFF/FRY** switch to **OFF**.
  9. Scrub the inside of the fryer pot again.
  10. **Before draining the cleaning solution**, remove the filter bag, screen and pipe connections from the filter vat. This must be done before draining the cleaning solution. **NEVER** pump water or detergent through the filter system.
  11. After 15 minutes, slowly open the drain valve. Drain the solution into the filter vat and discard.
  12. Rinse the pot with hot water, using the pot brush to remove remaining sediment, drain and discard.
  13. Close the drain and refill the fryer pot with hot water to the proper level.
  14. Add approximately 4 to 6 ounces of distilled (white) vinegar to develop a neutralizing solution. Stir the solution briefly. Leave in the pot for three to five minutes and discard. **NOTE: Foaming of shortening after boil-outs is caused by failure to follow proper neutralizing procedures.**
  15. Repeat steps 12 through 14 as needed to remove all traces of cleaning solution.
  16. Rinse the pot again with Cool water, drain and discard.
- CAUTION** Damage to the fryer could result if the fryer pot is not completely dry before filling with shortening. Refill the fryer pot with shortening **ONLY** when it is completely dry.
17. Dry the fryer pot and filter vat **COMPLETELY**.
  18. Close the main drain and fill with new shortening to the proper level.

### Filter Pad Replacement

The filter pad must be replaced daily. If the shortening has a milky color when it is pumped into the pot, the filter pad should be replaced immediately.

**CAUTION** If the filter pad is not properly closed, breading crumbs will get through the pad opening and clog the pump. Ensure that the filter pad is properly closed upon replacement.

1. Place the filter screen inside the filter pad.
2. Fold the end of the pad and seal with the bag clip.



## Troubleshooting

Refer to the table below for troubleshooting information.

<b>Problem</b>	<b>Cause</b>	<b>Possible Solution</b>
<b>Shortening Heating Too Slowly</b>	Low voltage or improper voltage	Contact an authorized BKI service agent for corrective action.
	Bad thermostat or loose wires	Contact an authorized BKI service agent for corrective action.
	Weak heating elements or heating elements breaking down	Contact an authorized BKI service agent for corrective action.
	Coil on contactor is bad	Contact an authorized BKI service agent for corrective action.
	Breading build-up on heating elements	Clean heating elements. If problems persist, contact an authorized BKI service agent for corrective action.
<b>Filter System Not Working</b>	Uncertain	Press the reset button on end of pump and hi-limit reset button under control panel. If problems persist, contact an authorized BKI service agent for corrective action.
	Connections not tight	Tighten the connections. If problems persist, contact an authorized BKI service agent for corrective action.
	Filter valve not open	Contact an authorized BKI service agent for corrective action.
	Filter paper on screen clogged with crumbs	Change filter paper. If problems persist, contact an authorized BKI service agent for corrective action.
	Motor hums, but does not pump	Check for clogged pump. If problems persist, contact an authorized BKI service agent for corrective action.
	Motor and pump coupling worn	Contact an authorized BKI service agent for corrective action.
	No power to control panel	Make sure drain valve is completely closed. If problems persist, contact an authorized BKI service agent for corrective action.
<b>Computer Hangs</b>	Computer malfunction.	Press and hold the Toggle/Clear button while moving the FRY/OFF/FILTER switch from FRY to OFF and back to FRY. If problems persist, contact an authorized BKI service agent for corrective action.





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**Gas Pressure Fryer**

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**REVISION HISTORY**

<b><u>REVISION</u></b>	<b><u>DATE</u></b>	<b><u>REVISED BY</u></b>	<b><u>DESCRIPTION</u></b>
01	10/1/2013	MSS	Initial Release-Supersedes all previous releases