



OPERATION MANUAL

BROASTER® 1600 AND 1800

PRESSURE FRYER w/SMART TOUCH CONTROL

Be sure ALL installers read, understand, and have access to this manual at all times.



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Broaster Company
2855 Cranston Road, Beloit, WI 53511-3991
608/365-0193 broaster.com

Design Certified By:

1600: CSA, NSF and UL

1800: CSA (AGA & CGA), NSF and UL

Manual #17269 8/13 Rev 12/14

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FOR YOUR SAFETY

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



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

For the sake of safety and clarity, the following words used in this manual are defined as follows:



Indicates an imminently hazardous situation which, if not avoided, could result in serious injury or death.



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



Indicates a potentially hazardous situation which, if not avoided, could result in minor injury, property damage or both.

All adjustments and repairs shall be made by an authorized Broaster Company representative.

If there is a power failure, turn cook/filter switch OFF. On the Model 1800GH, also slide switch on gas valve OFF. **DO NOT** attempt to operate unit during a power failure.

1800GH: Post, in prominent locations, instructions to be followed in the event that the user smells gas. This information can be obtained from your local gas supplier.



Failure to read and understand this manual completely could result in serious injury or death. Be sure ALL operators read, understand and have access to this manual at all times.



Rags or paper containing cooking oil can catch fire if exposed to heat. Laundering will not remove the oil. Dispose of all oil-soiled papers and rags in a trash container that is in a ventilated area away from all cooking equipment or other heat sources such as direct sunlight.



If at any time the controller stays on when the power switch is moved to the OFF position, disconnect the power to the unit and contact your local Broaster Company representative for service immediately.



DO NOT operate unit without filter pan and filter pan cover in its proper position. Filter pan cover must be completely cleaned after each filtering cycle.



Make sure Pressure Relief Valve and Pressure Gauge ports on bottom of cover are clear of any oil or grease buildup.

TABLE OF CONTENTS

1. WARRANTY PAGE	1 - 1
2. OWNERS RESPONSIBILITY	2 - 1
3. INSTALLATION INSPECTION	3 - 1
4. GETTING TO KNOW YOUR PRESSURE FRYER	4 - 1
5. PRE-COOKING PREPARATION	
O-RING LUBRICATION	5 - 1
COVER CHECK	5 - 1
COOKING OIL	5 - 1
OIL LEVEL	5 - 2
FOOD & CONDIMENTS	5 - 2
1800GH LIGHTING INSTRUCTIONS	5 - 3
6. SMART TOUCH CONTROL PANEL	
SMART TOUCH FAMILIARIZATION	6 - 1
COOK TAB	6 - 2
COOK TIME DISPLAY	6 - 2
AUTO COMP	6 - 2
TEMPERATURE DISPLAY	6 - 2
SELECT PRESET	6 - 3
CYCLES SINCE LAST FILTERED	6 - 3
FILTER TAB	6 - 4
SETUP TAB	6 - 5
TIME & DATE ADJUSTMENT	6 - 5
TEMPERATURE	6 - 5
ENERGY SAVE SETTING	6 - 6
PIN MAINTENANCE	6 - 6
PRESETS	6 - 7
NAME EDIT	6 - 7
POSITION EDIT	6 - 7
TIME & TEMPERATURE EDIT	6 - 7
AUTO COMP ON/OFF	6 - 7
ADD NEW	6 - 8
MENU TRANSFER	6 - 8
EXPORT MENU	6 - 8
LOAD MENU	6 - 9
SHORTENING MANAGEMENT	6 - 9
LANGUAGE SELECTION	6 - 9
ALERT SETTINGS	6 - 9
HELP TAB	6 - 10

7. COOKING WEIGHT, TEMPERATURE AND TIME	
FRESH PRODUCTS	7 - 1
INDIVIDUALLY QUICK FROZEN IQF CHICKEN, FROZEN	7 - 2
1600 BROASTER RECIPE PRODUCTS COOKING CHART	7 - 3
1800 BROASTER RECIPE PRODUCTS COOKING CHART	7 - 4
8. COOKING OIL CARE AND FILTERING	
OIL CARE	8 - 1
FILTERING	9 - 2
FILTERING TIPS	9 - 3
9. CLEANING	
COOKING WELL	9 - 1
FOOD BASKET	9 - 2
UNIT SURFACES	9 - 2
CONDENSATE PAN	9 - 2
SLIDE ROD	9 - 2
COVER	9 - 2
SPLASH SHIELD	9 - 3
FILTER PAN & COVER	9 - 3
PROBE GUARD & GASKET GUIDES	9 - 4
MINIMUM PREVENTIVE MAINTENANCE REQUIREMENTS	9 - 5
10. SHUTDOWN	
NIGHTLY	10 - 1
SEASONAL	10 - 1
11. TROUBLESHOOTING	
ELECTRICAL TIPS	11 - 1
SMART TOUCH CONTROLLER TIPS	11 - 2
1800GH GAS TIPS	11 - 3
PRESSURE SYSTEM TIPS	11 - 4
PRODUCT TIPS	11 - 5
FROZEN IQF CHICKEN	11 - 6
FILTERING TIPS	11 - 7

1 - LIMITED WARRANTY - Parts and Labor

Subject to the terms and conditions of this warranty, The Broaster Company (Company) warrants that all equipment and parts manufactured or sold by the Company and purchased new from an authorized Company distributor are free from defects in material and workmanship. The warranty begins on the date of installation, or one year from the date of manufacture, whichever occurs earlier. The term of the warranty is **one year for all non-wearable parts, two years on Solid State controllers, and ten years on the Welded Stainless Steel Cooking Well**. To qualify for warranty coverage, all units must be installed by a qualified installer under supervision by an authorized distributor in accordance with applicable laws and regulations. Warranty coverage is extended to the original purchaser only and is void if the equipment is resold or relocated. If an authorized Company distributor is notified of a warranty claim during the warranty period, the Company will at its option replace, recondition, or repair at its factory any part or parts of the equipment which the Company judges defective, provided the equipment has been subjected to normal usage, properly installed, operated and serviced in accordance with Company operating instructions, and there is no evidence of accident, alteration or abuse of the equipment or the use of unauthorized repair methods. All parts replaced under this warranty carry only the unexpired term of the warranty.

Extended cooking well warranty will cover the cooking well only and does not include any parts attached to the cooking well, including: probe guards, basket guides, latch columns, latch column blocks, insulation, splash shield interlock, drain valve, filter lines and fittings, high limit, thermostat, temperature sensor probe, combustion chamber and flue, elements, burner, all mounting hardware. The aforementioned excluded parts are covered under the 1-year parts warranty. The extended warranty does not cover any cooking well that fails due to any misuse or abuse.

Any warranty claim on the cooking well must be presented to The Broaster Company or authorized Broaster Distributor from whom the pressure fryer was purchased. Repairs will be made by The Broaster Company only. Any freight charges and distributor labor costs to install the repaired cooking well, as well as the cost of any other parts replaced will be the responsibility of the equipment owner.

Service under this warranty shall be furnished only by an authorized Company distributor. The Company does not send service representatives to furnish warranty service. Your authorized Company distributor should be contacted for warranty service.

This warranty covers **on-site labor charges only**, at a fixed rate, for one year, on new equipment only. The warranty period begins on the date of installation or one year from the date of manufacture, whichever occurs earlier. Transportation charges, trip charges, zone fees, or other expenses in connection with warranty service are the obligation of the owner.

This warranty shall be void unless genuine Broaster® parts & filter paper, Bro-Clean™ filtering compound, and Broaster Cooking Well Cleaner is used in conjunction with the equipment.

This warranty does not apply to consumable items and supplies such as O-rings, food baskets, bulbs, gaskets and lamps.

The foregoing warranty is made in lieu of all other warranties, express or implied, and the Company specifically disclaims any implied warranties of merchantability or fitness for a particular purpose. The Company's full obligation under this warranty, and the purchaser's sole remedy, shall be limited to replacement, reconditioning or repair as specified above.

IN NO EVENT SHALL THE COMPANY BE LIABLE TO THE ORIGINAL OWNER OR ANY OTHER PERSON FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES RESULTING FROM THE USE OR INABILITY TO USE THE EQUIPMENT COVERED HEREBY, WHETHER ARISING FROM BREACH OF WARRANTY, STRICT LIABILITY OR OTHERWISE.

The Company reserves the right to change or improve its products in any way without obligation to alter products previously manufactured.

Used Company equipment or Company equipment not purchased from an authorized distributor carries no warranty expressed or implied.

2 - OWNERS RESPONSIBILITY

It is the owner's responsibility to:

- Insure the Broaster[®] Pressure Fryer is properly maintained.
- Insure all safety devices and warning signs are in their original location and are legible.
- Allow only properly trained personnel to operate, clean and maintain a Broaster[®] Pressure Fryer.
- Retain this manual for future reference.
- Insure main power supply is disconnected before the unit is serviced.
- When you sell, trade, dispose of or give away your Broaster[®] Pressure Fryer, you must make sure that all safety devices and warning signs are intact and legible and the operation manual is included with the unit.
- **1800GH:** Keep burner area free and clear of all combustible materials.
- **1800GH: DO NOT** obstruct exhaust flue or open area around bottom of unit at the front, back and sides which would restrict the flow of combustion and ventilation air.

If you need replacement warning signs or manuals, contact an authorized Broaster Company representative or the Broaster Company at 608/365-0193.

The Customer Service Department at the Broaster Company should be contacted at the time of sale or disposal of the Broaster[®] Pressure Fryer so records may be updated.

3 - INSTALLATION INSPECTION

Before operating unit, be sure installation meets all requirements in the Installation Manual provided with your unit.

CAUTION Follow cleaning instructions as outlined in this manual before operating the first time. See section 9 - **CLEANING**.

- A remote circuit breaker or fuse should be installed in the main power supply located in a path of exit and clearly identified.
- To avoid splashing of hot liquid, unit must be restrained to prevent tipping. This can be done by installing the unit in a battery of appliances, in an alcove or with adequate ties.
- See **Safety Relief Valve** under GETTING TO KNOW YOUR BROASTER® PRESSURE FRYER. DO NOT install unit where traffic area's are on either side or in back of unit.

1800GH:

WARNING

Electrical Grounding Instructions - The Model 1800GH 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 grounding prong from this plug.

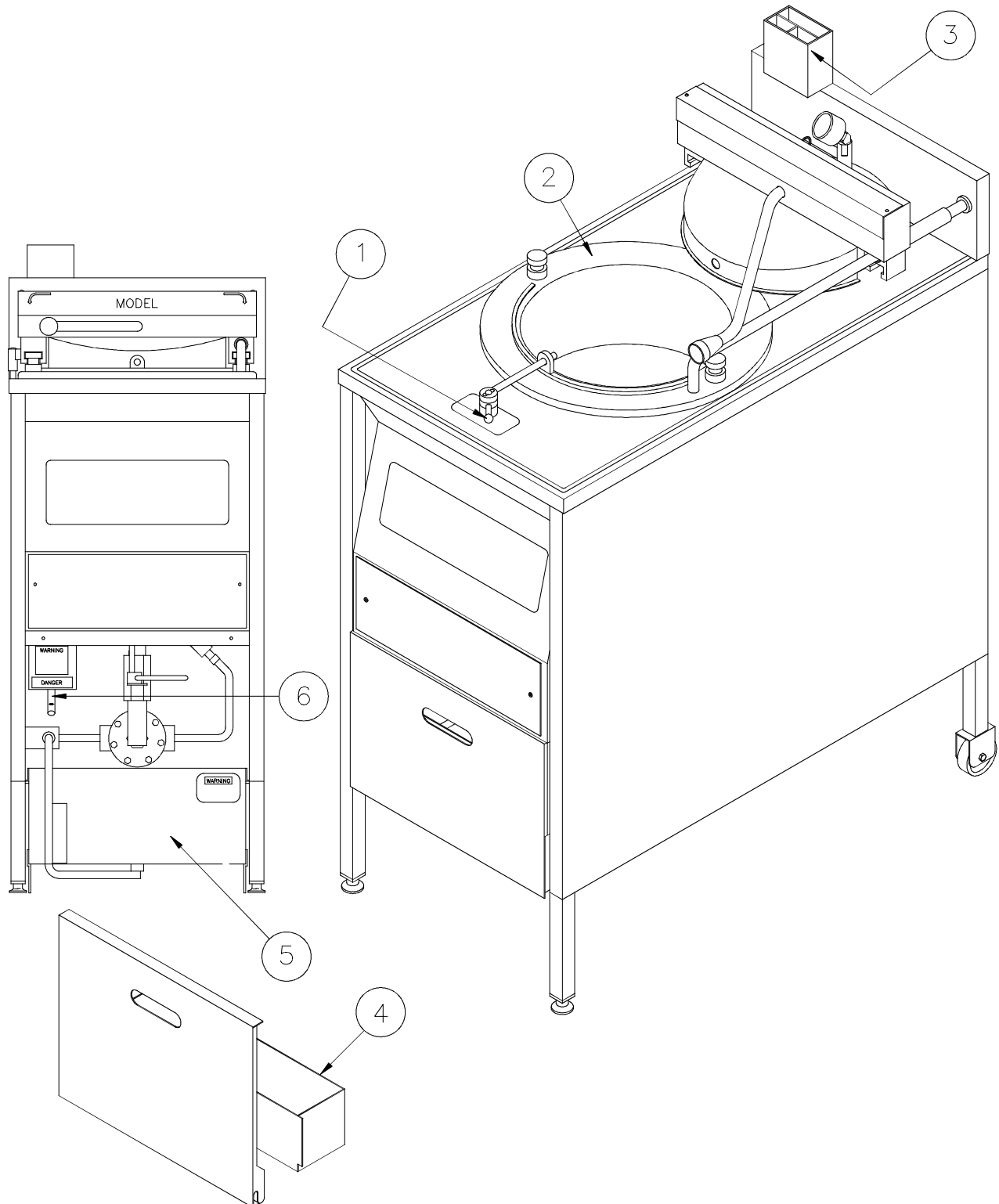
NOTICE

A gas shutoff valve, installed in gas supply line, should be located in a path of exit and clearly identified.

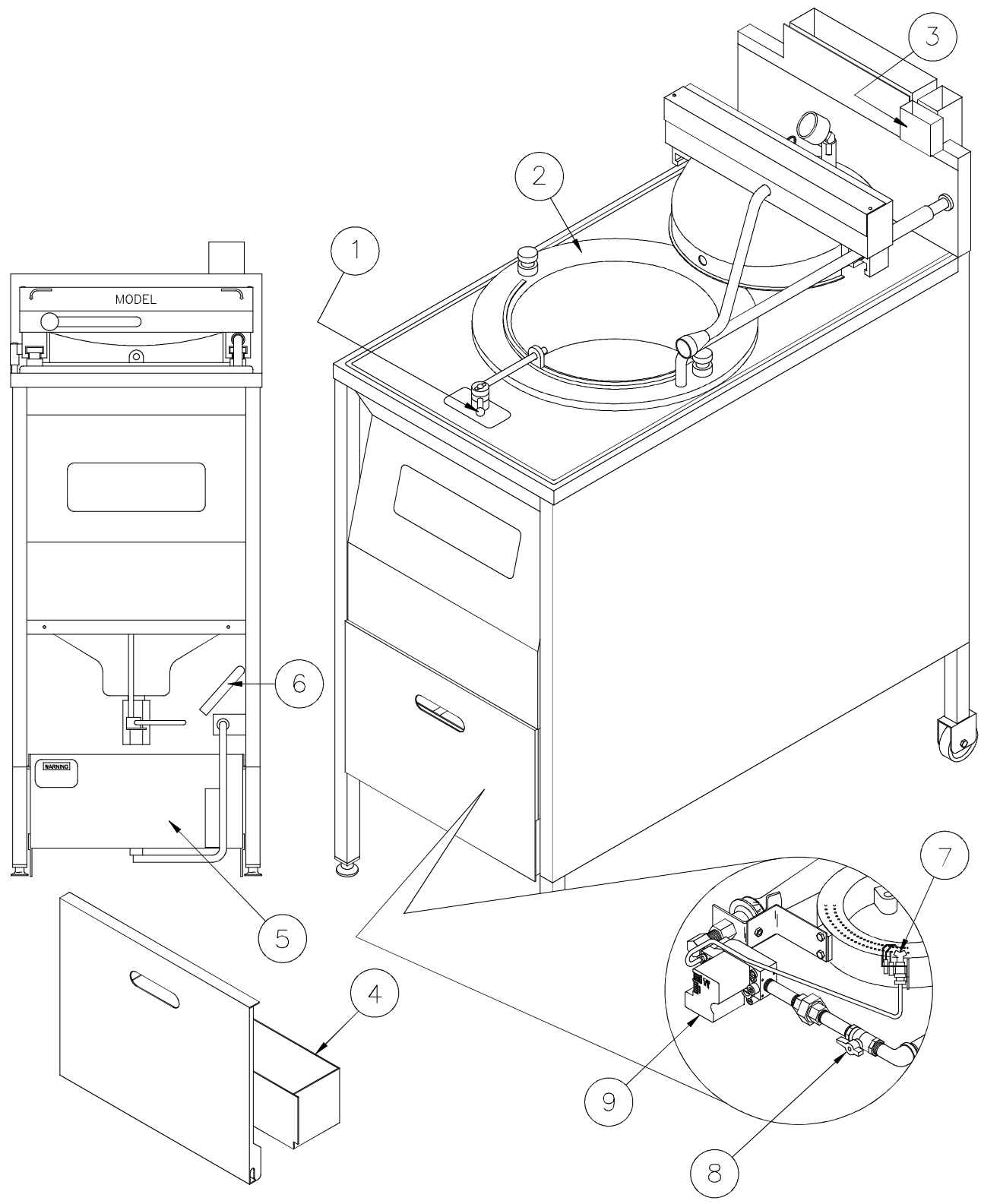
Contact your local Broaster Company representative for converting from one type of gas to another.

4 - GETTING TO KNOW YOUR BROASTER® PRESSURE FRYER

Model 1600:



Model 1800:



1. **Pressure Regulating Valve:** Opens and closes pressure regulating valve. When cover and valve are CLOSED, this valve seals the cooking well allowing pressure to build up. Valve is preset to maintain pressure at 12-14 PSI during a cooking cycle. When OPEN, all pressure is exhausted and timer stops timing.
2. **Cooking Well:** Holds cooking oil.
3. **Basket Lifter Holder:** Holds basket lifter when not in use.
4. **Condensate Pan:** Holds condensation drained from exhaust tank. Check liquid level several times daily. Empty as needed.

⚠ WARNING Water and hot oil **DO NOT** mix. **DO NOT** pour contents of condensate pan into cooking well or filter pan. Hot oil could splash causing serious burns.

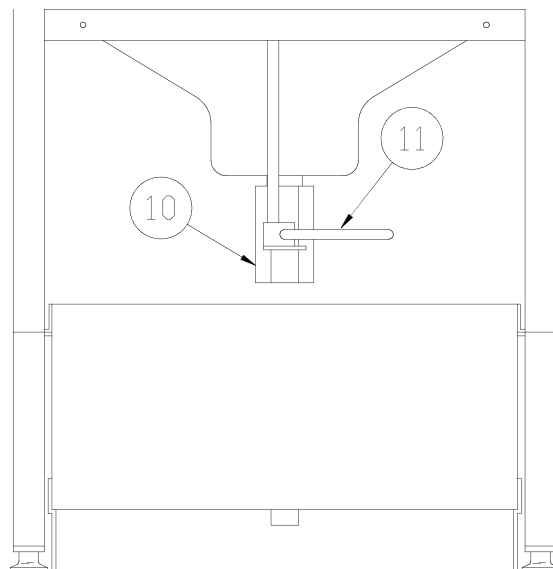
5. **Filter Pan:** Holds filter components and filtering compound used to filter hot oil.

⚠ CAUTION HOT!

⚠ WARNING Hot shortening! **DO NOT** use this container to transport hot shortening. Hot shortening could splash causing serious burns.

6. **Exhaust Drain Tube:** Directs condensation from the exhaust tank into condensate pan.
7. **Model 1800GH Pilot Burner:** A small flame used to ignite the main burner.

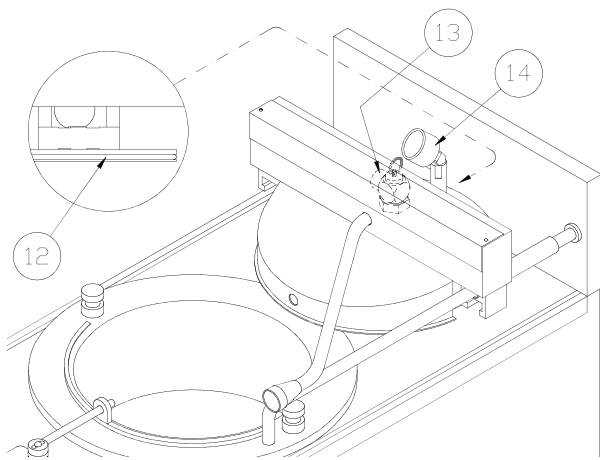
8. **Model 1800GH Manual Gas Shut Off Valve:** Shuts off gas flow to the gas valve. Gas will flow when handle is in line with pipe. Turning handle cross-wise to the pipe will stop gas flow.
9. **Model 1800GH Gas Valve:** Regulates gas supply. The valve has a two position switch: OFF to stop all gas flow and ON allows gas flow to pilot and main burner as needed.



10. **Drain Valve:** Used to drain cooking oil from cooking well into filter pan or container made for handling hot oil.

⚠ DANGER Never drain oil unless cook/filter switch is OFF and pressure regulating valve is OPEN. Hot oil could spray out under pressure causing serious burns.

11. **Drain Valve Handle:** Opens and closes drain valve. When handle is horizontal, valve is closed. When vertical, valve is open.

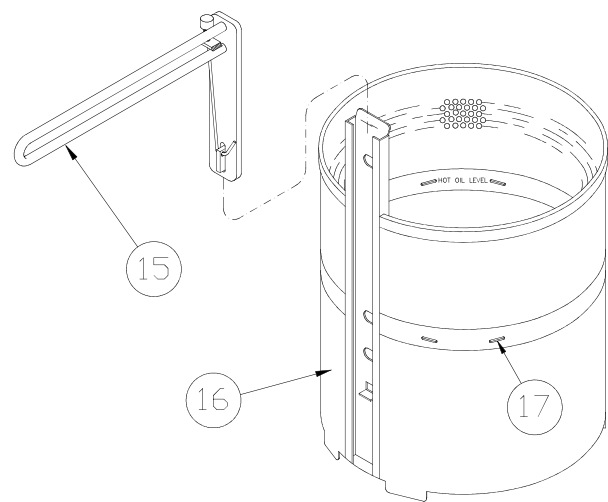


12. **Cover O-Ring:** Forms a seal when cover is lowered into the cooking well.
13. **Safety Relief Valve:** This valve will open in the event pressure in the cooking well meets relief pressure of valve. A properly installed valve has the outlet facing toward rear corner of the countertop. **DO NOT** use valve to release pressure at the end of a cooking cycle. If valve leaks during normal operation, **DO NOT** operate your unit until valve is replaced by an authorized Broaster Company representative.

⚠ WARNING Keep away from safety relief valve opening without heat and steam protective apparel. Escaping steam could cause serious burns.

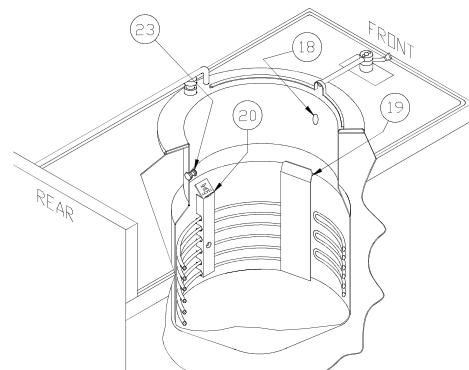
NOTICE Test valve once a month. Also test before and after an extended period of non-service. Using a hot mitt, lift valve handle during a cook cycle until pressure is released from cooking well. Allow valve to snap closed.

14. **Pressure Gauge:** Indicates pressure within the cooking well. Normal operating pressure is 12-14 PSI.

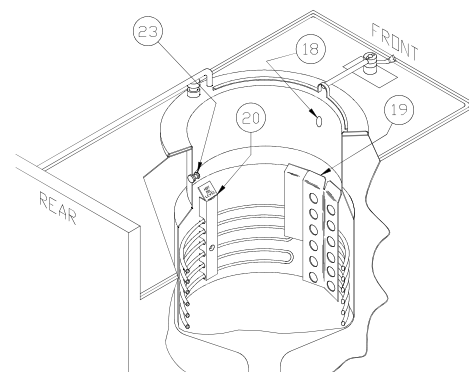


15. **Basket Lifter:** Used to raise and lower food basket into the cooking well.
16. **Food Basket:** Holds product for cooking.
17. **Hot Oil Level:** Indicates proper level when oil is at operating temperature.

Model 1600:



Model 1800:



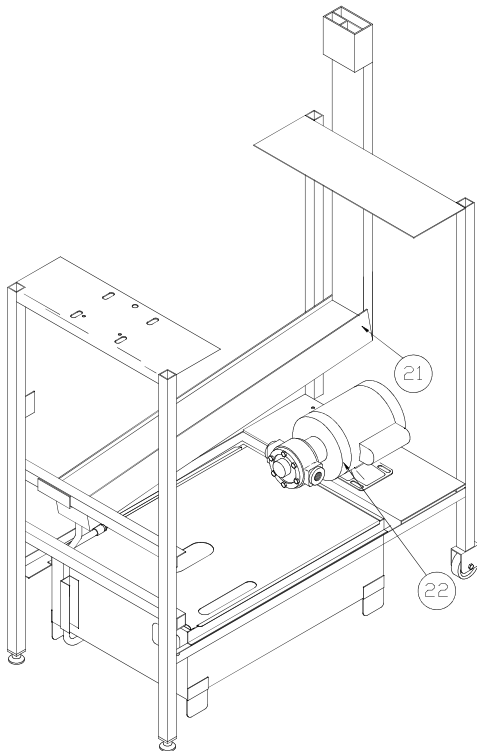
18. **Pressure Port:** When cover is CLOSED while cooking, all steam passes through this port into the pressure regulating valve.
19. **Capillary Guard:** This guard protects temperature sensor probe, hi-limit bulb and capillary from damage.



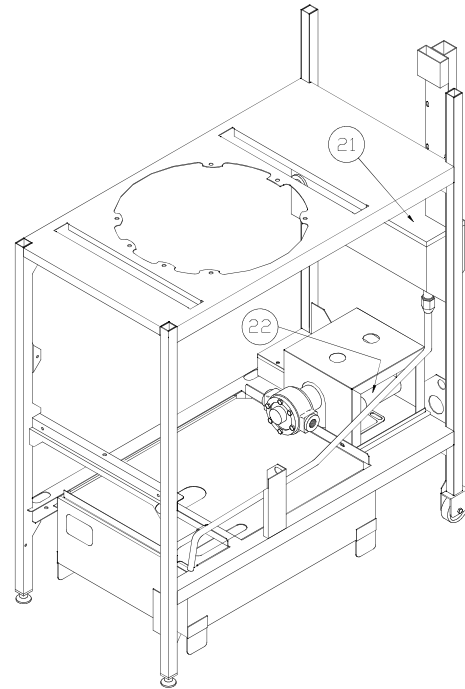
Check oil level before turning cook/filter switch to COOK.

20. **1600/1800E Hot Oil Level:** Indicates proper level when oil is at operating temperature. **1800GH: HOT OIL LEVEL** is stamped on capillary guard.

Model 1600:



Model 1800:



21. **Exhaust Tank:** Steam and vapors are exhausted through this tank.
22. **Filter Pump and Motor:** Used to return oil to cooking well when filtering.
23. **Basket Rest:** Used to hold and tilt basket for draining when removing cooked product from oil. It is also used for loading some frozen products before lowering them into the oil to be cooked.



DO NOT rest basket on top flange of cooking well. Damage to area in contact with o-ring can cause leaking under pressure or o-ring failure.

5 - PRE-COOKING PREPARATION

O-RING LUBRICATION

Lubricate filter pan riser line O-ring and cover O-ring with cooking oil (see COVER instructions one through three under CLEANING).

COVER CHECK

To OPEN cover, push down on cover handle then rotate handle clockwise. Slide assembly to the rear of the unit. To CLOSE, pull assembly toward the front and rotate handle counterclockwise.

- Always fully rotate handle OPEN or CLOSED.
- Never use force to OPEN cover. OPEN only when no pressure is present in the cooking well.
- If cover will not OPEN easily, be sure pressure regulating valve is OPEN. If cover will still not OPEN, turn cook/filter switch OFF. DO NOT operate unit until it has been serviced by an authorized Broaster Company representative.

COOKING OIL

The words “oil” and “shortening” are used to describe a high quality cooking medium manufactured for deep frying.



Check oil level before turning cook/filter switch to COOK.



Use care when handling hot oil. Oil could splash causing serious burns.

Fill cooking well using one of the following:

Liquid Oil:

Use Broaster® liquid oils or a high quality liquid oil manufactured for deep frying.

Solid Shortening: (Any cooking medium that is solid at room temperature)

NOTICE

See Shortening Management on the Setup Tab to set the type of oil being used.



DO NOT heat solid shortening on a stove or other appliance prior to placing in cooking well. Hot shortening could splash causing serious burns.

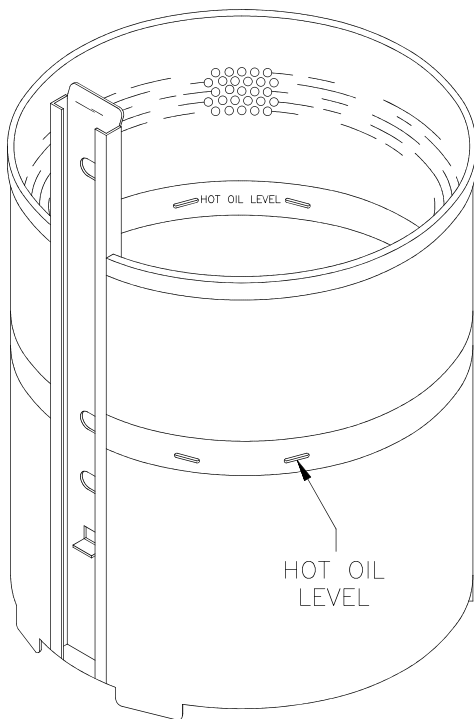
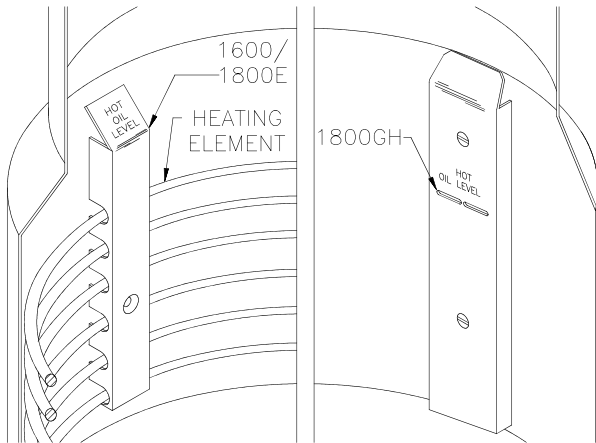


WARNING: DO NOT leave unit unattended when melting solid shortening. HOT OIL LEVEL must be maintained. Solid shortening must be soft enough to be packed around and completely cover heating elements on the 1600/1800E and sides and bottom of cooking well on the 1800GH. If not, there will be places on heating elements and cooking well not covered with shortening. During the heating period, these bare spots will be hot spots. They could discolor the cooking well, damage a heating element or start to scorch or burn shortening thereby reducing its useful life.

OIL LEVEL

Close drain valve. Fill cooking well with oil approximately 1/2" below HOT OIL LEVEL. Oil will expand when heated.

⚠ WARNING Be sure hot oil is at HOT OIL LEVEL. Be sure top heating element is covered before turning power switch to ON.

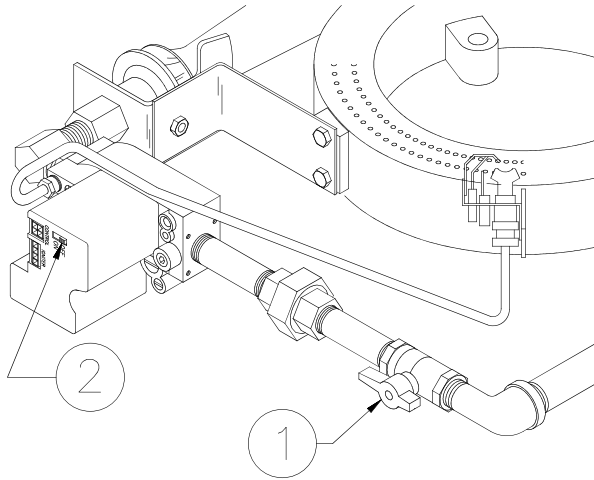


FOOD AND CONDIMENTS

Make sure the food you purchase is high quality. For best results, chicken should be fresh, trimmed for portion control and uniform in size.

A wide variety of Broaster® Company MSG free condiments are available. They have all been tested for the best possible results in your unit. By using Genuine Broaster® condiments, you can obtain a Trademark Authorization allowing the use of The Broaster Company trademarks in your advertising.

1800GH LIGHTING INSTRUCTIONS



Start Up:

1. Turn cook/filter switch OFF.
2. See OIL LEVEL.
3. Turn gas shut-off valve (1) ON. Wait five minutes before turning gas control ON.
4. * Slide switch (2) on top of gas control to ON.

NOTICE

The model 1800GH has an intermittent pilot burner. This type of pilot lights when the controller calls for heat and goes out when the controller isn't calling for heat.

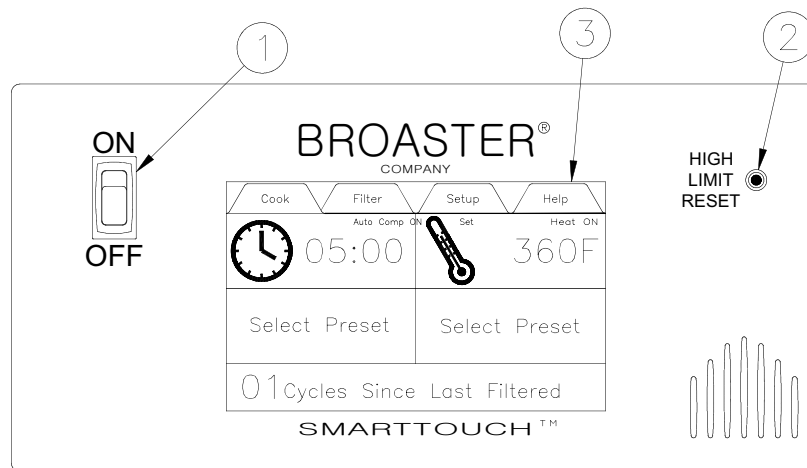
5. To light pilot and main burners, turn cook/filter switch to COOK.

Shut Down:

1. Turn cook/filter switch OFF.
2. Turn gas control switch (2) OFF.
3. Turn gas shut-off valve (1) OFF.

6 - SMART TOUCH CONTROL PANEL

SMART TOUCH FAMILIARIZATION



1. **Power Switch:** This switch has two positions: ON or OFF.

2. **Hi-Limit Control:** Prevents oil temperature from exceeding 475°F. When this control trips, the power to the unit will be shut down. Turn unit OFF and DO NOT attempt to operate until it has been serviced by an authorized Broaster Company representative.

NOTICE

It is possible for this control to trip during shipment. If it does, fully depress red reset button. If control “clicks” it was tripped. If not, it is correctly reset.

3. **Touch Control Screen:** Touching this screen controls the many options of the fryer.

On initial power up you may be asked to enter the current date and time, and verify the Serial Number. Or the screen will have the word CAUTION flashing on the screen.

If the date and time entry screen appears press the box after “Month” and a keypad will appear. Enter the number of the month

and press the enter key. Repeat this action for the Day, Year, Hours, Minutes, Seconds, AM and PM boxes. When finished press the green OK button in the bottom right corner of the screen. The next display will ask you if this date should be used to establish the warranty start date. Press the green OK button.

You will then see a display asking you to verify the serial number of your fryer. Enter the serial number using the keyboard and press enter.



NOTICE

The date/time display and the serial number display will not appear again when the power switch is turned off and back on.

A CAUTION screen will appear to remind you to check the oil level before the heating elements or burner are activated. If the oil is at the proper level, press the green OK button in the bottom right corner of the screen.

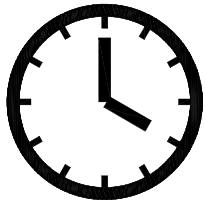
Along the top of the screen are four tabs (Cook, Filter, Setup and Help) to help you setup and use your fryer.

COOK TAB

Cook	Filter	Setup	Help
 05:00	Auto Comp ON	 Set	Heat ON 360F
Select Preset		Select Preset	
01 Cycles Since Last Filtered			

This tab is the main working screen. From this screen you can set the Cook Cycle Time, Cook Temperature, or select a Product Preset.

CookTime Display:

	Auto Comp ON
05:00	

The cook time is indicated in the box next to the clock face. To change the time press the time display twice and a keypad will appear.

Enter the cook time for the product you are cooking, as you enter the time it will appear above the keypad. To save this time press the enter key the new time will be entered and the keypad will disappear.

If no entry is made or the enter key is not pressed within 25 seconds, no change is made to the time.

When a cooking cycle is started the box below the cook time turns yellow and shows the amount of time remaining in the cycle. The right box displays "CUSTOM". The word "CUSTOM" also replaces the tabs across the top of the display. "CUSTOM" indicates you are in manual cooking mode.

At the end of the cycle the left box alternates between red and white, the alert sounds and continues until the exhaust valve is opened by turning the small handle on the countertop from "CLOSED" to "OPEN".


Auto Comp

In the upper right corner of the cook time display is the Auto Comp indicator. It will be black if Auto Comp is off and green if Auto-Comp is on.

To turn Auto Comp on or off press the cook time display twice. When the keypad appears the Auto Comp toggle switch is in the upper right corner of the keypad. If the button is red Auto Comp is off, if it is green Auto Comp is on. Press the Auto Comp button to change it then press the enter key.

Our recommendation is that Auto Comp should be on when cooking a load of product.

Temperature Display:

Set	Heat ON
	360F

The temperature is indicated next to the thermometer.

When the fryer is turned on in the morning this box will be yellow and "Heat On" will be displayed. The temperature will alternate between "LOW" and the set temperature until the oil temperature reaches the set temperature.

There are other times when this will occur;

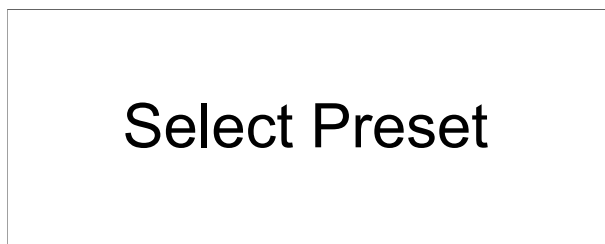
1. Anytime the temperature is changed.
2. After a filtering cycle.
3. When a preset is selected and the oil temperature is not at the preset temperature.

In any of these cases when the oil temperature reaches the set temperature the box turns green indicating the oil is up to the set temperature.

The temperature shown in this box can be either the “Set” temperature of the “Actual” temperature as indicated above the thermometer. To change from one to the other press anywhere in the box for 3 seconds. An alert will sound when you press the box and a second alert will sound when the change is made.

To set the temperature, press the temperature box twice and a keypad will appear. Enter the temperature for the product you want to cook, as you enter the temperature, it will appear above the keypad. To save this temperature press the enter key.

Select Preset Display:



There are 2 “Select Preset” boxes.

All of the Broaster Company Products are preloaded into the memory of the control and can be selected when you want to cook that product. The cook time and cook temperature for that product will be automatically entered in the Time and Temperature displays.

To select a product, press either preset box and a menu of the products will be displayed. Tap the product you wish to select.

If the wrong product comes up, don’t worry! Tap the preset box again and the menu will reappear.

When the item has been selected a picture of the item will appear in the left box and a description of the item will appear in the right box. When a cook cycle is started the left box turns yellow and the time remaining in the cycle is displayed. The picture moves to the right box.

If the menu item to be cooked uses a different temperature the temperature box will either remain green meaning it is all right to start a cook cycle or it will turn yellow meaning the temperature is too low to start a load. Wait to start a cook cycle until the temperature is green.

When the temperature is green. Load the product as recommended and move the small handle on the top of the fryer from open to close. This will start the cycle timer counting down. When the load is done an alert will signal that the cooking cycle is complete.

Cycles Since Last Filtered:

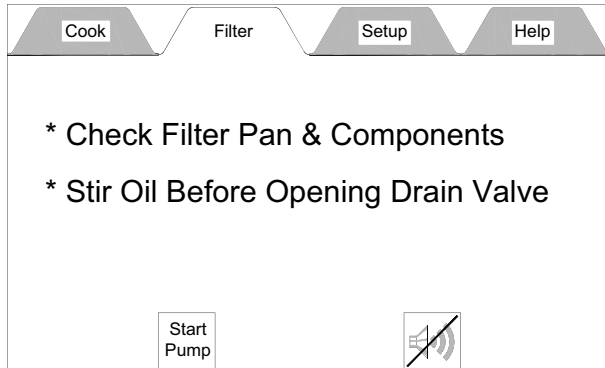


It is recommended the oil should be filtered every 5 loads.

This box indicates how many cook cycles have been completed since the last time the oil was filtered. It is active and can be pressed at any time to go to the filter display except during a cooking cycle. Once you reach a preset number of cycles, you will be shown a filter options screen. If a filter cycle is bypassed the next cycle will turn red and start flashing.

This number can be changed and the procedure will be explained in the Setup Tab section.

FILTER TAB



This tab is the filter motor control and has two buttons; a Start Pump button and a Silence Alert button.

There are also two reminders to observe before filtering the oil. SEE SECTION 9 - COOKING OIL CARE AND FILTERING before starting the pump motor.

When the Start Pump button is pressed the filter running display appears as shown below.



The timer in the middle of the screen starts counting up. When it reaches 5:00 minutes an alert sounds and a reminder flashes (see below) to close the drain valve. To silence the alert press the button with the speaker on it. DO NOT press the Stop Pump button.



Press STOP PUMP after the oil is completely returned to the cooking well or you can leave the pump running and it will automatically stop when the counter says 10:00 minutes. See display below.



To return to the Cook Tab, press the red X in the upper left corner. The Caution Display will appear advising the oil level be checked. If the oil level is OK press the green OK button.

SETUP TAB

This tab may or may not be secured. If it is unsecured the Pin Disabled display will appear as shown below. Press the OK

The screenshot shows the top navigation bar with 'Cook', 'Filter', 'Setup', and 'Help' tabs. The 'Setup' tab is active. The main display area shows the text 'PIN disabled' and 'Press OK' below it. At the bottom right is an 'OK' button.

button to continue.

If this tab is secured the Enter Pin display will appear as shown below.

The screenshot shows the top navigation bar with 'Cook', 'Filter', 'Setup', and 'Help' tabs. The 'Setup' tab is active. The main display area shows the text 'Enter PIN' above a large rectangular input field containing five asterisks '*****'. At the bottom right is an 'OK' button.

If the Pin number is known, press the box and a keypad will appear. Enter the PIN number and press Enter.

Setup Display:

The screenshot shows the 'Setup' tab selected in the top navigation bar. The main display area contains a list of menu items arranged in two columns. The left column includes 'Time & Date Adjustment', 'Temperature', 'Energy Save Setting', 'Pin Maintenance', 'Presets', and 'Shortening Management'. The right column includes 'Language Selection', 'Alert Settings', and 'Exit Setup'.

Time & Date Adjustment:

Pressing this option opens the Set Date & Time display.

The screenshot shows the 'Set Date & Time' display. It features a red 'X' button in the top left corner. The display is divided into two columns for input: 'Month', 'Day', and 'Year' on the left; 'Hours', 'Minutes', and 'Seconds' on the right. Below these are 'AM' and 'PM' selection boxes. An 'OK' button is located at the bottom right.

To set the date and time, press the box after "Month" and a keypad will appear. Enter the number of the month and press the enter key. Repeat this action for the Day, Year, Hours, Minutes, Seconds, AM and PM boxes. When finished press the green OK button. To leave this display without making a change press the red X or the green OK.

Temperature:

Pressing this option opens the Temperature Settings Display.

The only thing that can be set in this display is the temperature scale, either Degrees F (fahrenheit) or Degrees C (Celsius).

The screenshot shows the 'Temperature Settings' display. It features a red 'X' button in the top left corner. The display shows 'Temperature Units:' followed by a box containing 'Degrees F'. An 'OK' button is located at the bottom right.

Pressing the Degrees box switches the units.

Energy Save Setting:

Pressing this option opens the Energy Saving Settings display.

X

Energy Saving Settings

Set Energy Save Timer (HH:MM):

00:00

Set Auto Shut Off Timer (HH:MM):

00:00

(Setting Either Timer to 00:00 will disable the function)

OK

You have two options on this display:

OPTION 1: Energy Saving Option.

The fryer will go into this mode when the specified idle time has passed. When the fryer goes into the energy saving mode the oil temperature will drop to 270° F (132° C) and remain there until the fryer is prompted by pressing the green OK button, to resume the normal cooking temperature. When the fryer enters the energy saving mode the display shown below appears.

Energy Save Mode

Set temperature is 270F

Allow temperature to recover
before cooking

OK

When the OK button is pressed the display returns to the normal Cook Tab display and the temperature will be yellow and Low and the set temp will be alternating. **DO NOT** start cooking until the temp display is green.

Option 2: Auto Shut Off Timer.

When this option is set, the control will shut off all heaters after the specified time, and the display shown below will appear.

Heat Off

due to inactivity

Hit "OK" to resume and allow
temperature to recover
before cooking

OK

Follow the instructions on the screen to resume use of the fryer.

For either of these options set the desired time by pressing the time button. A keypad will appear. Enter the desired time. As you enter the hours and minutes they will appear above the keypad. When the time is entered press the green OK button.

Pin Maintenance:

Pressing this option opens the PIN Maintenance display.

X

PIN Maintenance

Pin

Pin On/Off

OFF

OK

Presets:

Pressing this option opens a list of products with a picture of the product and the cook time and cook temperature pre-loaded.

This is where the product preset is either shown or not shown as a preset on the Cook Tab.

Select Preset or			Add New	Load Menu	Export Menu
# 1		Chicken 8pc Mixed FRESH			
# 2		Chicken Popcorn Cajun IQF			
# 3		Chicken Popcorn Regular IQF			
# 4		Chicken Tenders Home Style IQF			
# 5		Chicken Tenders Regular IQF			
# 6		Burrito Bean'n Beef IQF			
# 7		Burrito Breakfast IQF			
# 8		Burrito Pizza IQF			

By default all products will be shown. To turn any product off, press the item once and the Edit/Create Preset display will appear.

Edit / Create Preset					Delete
Edit / Enter Preset Name: Chicken Popcorn Cajun IQF					
Edit / Enter Preset Number: 02					
Stage	Temperature	Time	Comp On / Off	Active	
1	360F	05:00	On	Yes	
2	000F	00:00			
3	000F	00:00			
					OK

Here you can edit the name of the of the product, change its position on the list, set the cook time and temperature, set Auto Comp to be on or off during the cooking cycle and whether or not this item should be active as a preset on the Cook Tab..

Creating a new product or deleting a product on the list will be described later.

Name Edit:

To edit the name of the current product press the Edit / Enter Preset Name bar and a typewriter keyboard will appear. The cursor will be at the end of the name. To change the name press the BACK button and the cursor will delete the name one letter each time the BACK button is pressed.

Delete the letters until you get to the place where you want to start making the change. To get the numbers and symbols to come up press the Symbol key.

When you have completed entering the changed name press the ENTER key.

Position Edit:

To change the position of this item on the menu list, press the Edit / Enter Preset Number bar and a number pad will appear. Enter the number of the position you want this item to appear at then press the ENTER key.

Time & Temperature Edit:

Most of the cooking will be done on stage 1. To edit this feature press the button and a number pad will appear. Enter the desired cooking temperature or time and press the ENTER button. If a number is entered and the ENTRY button is not pressed within 30 seconds the number pad will disappear and no changes will be saved.

Comp On / Off:

This button toggles Auto Comp on or off.

Active:

This button allows the item to be shown in the preset menu list of the Cook Tab. If the button says Yes the item appears on the list if No it does not.

You can quickly tell when a product is not active because the name and number of the item will be greyed out.

ADD NEW:

Pressing this button opens a display to enter a new product to the menu list. This display is similar to the Edit display except all information must be added.

Stage	Temperature	Time	Comp On / Off	Active
1	<input type="text" value="000F"/>	<input type="text" value="00:00"/>	<input type="button" value="On"/>	<input type="button" value="Yes"/>
2	<input type="text" value="000F"/>	<input type="text" value="00:00"/>		
3	<input type="text" value="000F"/>	<input type="text" value="00:00"/>		

To enter the name press the Edit / Enter Preset Name bar and enter the name of the new product.

The Preset Number automatically defaults to the next number after the last item on the list. This can be changed by pressing the Edit / Enter Preset Number bar and entering the number where you want this item to appear.

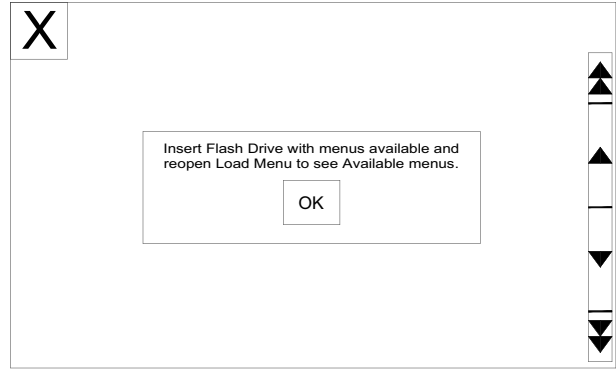
Set the cook temperature and cook time the same way as when editing a preset.

Set Auto Comp and Activity accordingly.

Press the green OK button to save the new product.

Menu Transfer:

The Smart Touch control allows a revised menu to be transported from one fryer to other fryers which also have a Smart Touch control. This is done from the Preset tab using the Load Menu and Export Menu buttons along the top of the display.



EXPORT MENU:

When you make changes to the menu on one fryer and want to put the same menu on other fryers with the Smart Touch Control you can export the revised menu from this fryer to the flash drive and load it onto the other fryers.

Plug the flash drive into the USB port in the front panel above the control panel. Press the Export Menu button on the Preset menu display.

Press the Export Menu button once and the control will ask you for a filename. Press the Enter Menu File Name bar and a keyboard will appear. Enter a name you will recognize then press the ENTER Button.

NOTICE

The file name can only be 8 characters long.

When the ENTER key is pressed a box will appear that says Exporting Menu... with a progress bar.

When the export is complete the box will say "Menu Exported". Press the OK button and the Preset display will appear. Remove the flash drive from the USB port.

LOAD MENU:

Menu changes that have been downloaded to a flash drive can be loaded onto fryer.

Plug the flash drive into the USB port in the front panel above the control panel. Press the Load Menu button on the Preset menu display.

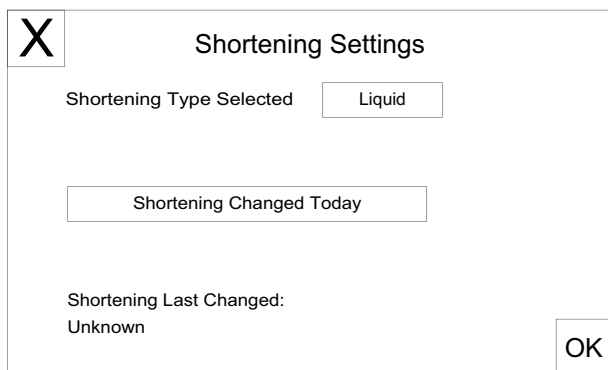
When the display appears there may be more than one menu. Press the bar for the menu you want loaded and a “Loading Menu...” box will appear with a progress bar.

When the menu is loaded a box will appear saying “Menu Loaded”. Press the OK button and the Preset display will appear.

Remove the flash drive from the USB port.

SHORTENING MANAGEMENT:

Pressing this option opens the Shortening Management Display.

The image shows a screen titled "Shortening Settings" with a close button (X) in the top left. It contains three main sections: "Shortening Type Selected" with a button labeled "Liquid"; "Shortening Changed Today" with a rectangular input field; and "Shortening Last Changed:" with the text "Unknown" below it. An "OK" button is in the bottom right corner.

Shortening Settings

Shortening Type Selected Liquid

Shortening Changed Today

Shortening Last Changed:
Unknown

OK

Pressing the button next to Shorting Type toggles between “Liquid” and “Solid”.

Selecting “SOLID” activates a melt cycle when the controller is turned on and the oil temperature is below 200° F.

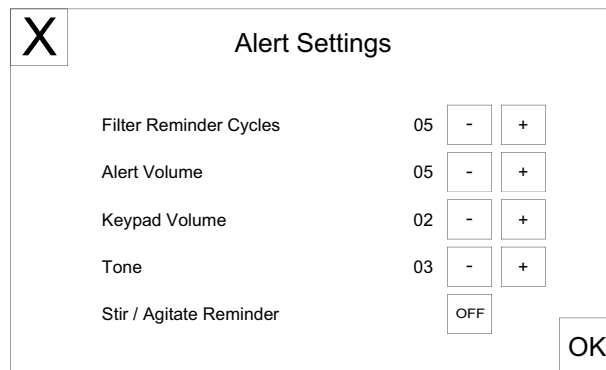
Pressing the “Shortening Changed Today” bar enters today’s date and time as a reminder when the oil was last changed. this also resets the “Cycles Since Last Filterd” counter to 00 on the Cook Tab.

LANGUAGE SELECTION:

Pressing this option will allow you to change the language used in all displays. (This option is not yet active)

ALERT SETTINGS:

Pressing this option allows you to set conditions for several features.

The image shows a screen titled "Alert Settings" with a close button (X) in the top left. It lists five settings, each with a numerical value and minus/plus buttons: "Filter Reminder Cycles" (05), "Alert Volume" (05), "Keypad Volume" (02), "Tone" (03), and "Stir / Agitate Reminder" (OFF). An "OK" button is in the bottom right corner.

Alert Settings

Filter Reminder Cycles 05 - +

Alert Volume 05 - +

Keypad Volume 02 - +

Tone 03 - +

Stir / Agitate Reminder OFF

OK

The numbers left of the boxes indicate the current setting. They can be changed by pressing the “-” or “+” buttons.

Filter Reminder Cycles: This sets the number of cook cycles between each oil filter cycle. The Broaster Company recommends 5 cook cycles however, you can set it as you desire. A setting of “0” will disable the filter reminder screen.

Alert Volume: This should be set loud enough to be able to hear it above any other noises in the kitchen.

Keypad Volume: It should be loud enough to hear while making changes in front of the fryer or when operating the fryer.

Tone: There are a range of tones from low to very high. Chose the one that suits your operation.

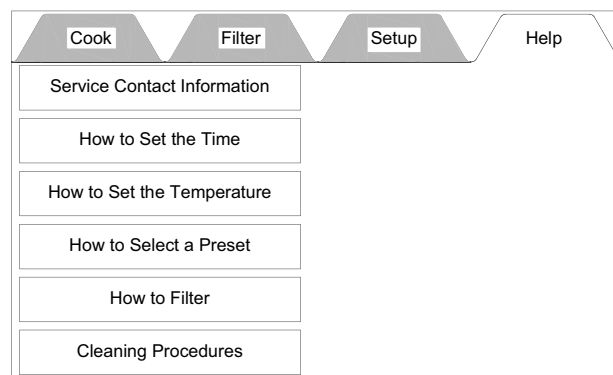
Stir/Agitate Reminder: This alert appears when 3 conditions occur.

1. When the fryer is first turned on in the morning, this reminder will appear after the oil comes up to the set temperature.
2. After a filter cycle has been completed this reminder will appear after the oil comes up to the set temperature.
3. If the fryers has been setting idle for 2 hours or longer this reminder will appear to alert you to stir the oil to get it to a uniform temperature.

After making the adjustments on this display press the green OK button to save the entries.

To go back to the Cook display either press the “Exit Setup” button or the Cook Tab.

HELP TAB



This display provides instructions for the items in the boxes. They are available at any time to help you set up the control to cook product.

7 - COOKING WEIGHT, TEMPERATURE AND TIME

FRESH PRODUCTS

⚠ WARNING ALWAYS COOK ALL BROASTER PRODUCTS UNTIL THE INTERNAL TEMPERATURE REACHES THE FOLLOWING MINIMUMS:

Chicken, White - 170°F;
 Chicken, Dark - 180°F;
 Corn Dogs/Pork - 160 to 170°F;
 Fish - 155°F

The charts below give suggested temperature and time settings. Actual cook times may vary depending on a product's internal temperature before cooking. Times indicated below assume automatic time compensation is ON.

NOTICE

Increase cook time when cooking frozen or over-sized product.

Use our methods of food preparation and cooking procedures for the best possible results.

MAXIMUM LOAD:

Fresh bone-in chicken

1600: 3.2 Kg (7 lbs.)

1800: 6.4 Kg (14 lbs)

⚠ WARNING

Placing more than the recommended weight of fresh product or product that is over-wet in the cooking basket will increase the amount of surge boiling in the cooking well.

PRODUCT	WEIGHT/THICKNESS	TEMPERATURE	TIME
Fresh Chicken 8 or 9 Piece Cut	0.90 - 1.02 Kgs (2.00 - 2.25 lbs.)	182° C (360° F)	7:15 - 7:45 min.
	1.02 - 1.13 Kgs (2.25 - 2.50 lbs.)	182° C (360° F)	7:45 - 8:15 min.
	1.13 - 1.25 Kgs (2.50 - 2.75 lbs.)	182° C (360° F)	8:15 - 9:00 min.
	1.25 - 1.36 Kgs (2.75 - 3.00 lbs.)	182° C (360° F)	9:00 - 9:30 min.
	1.36 - 1.47 Kgs (3.00 - 3.25 lbs.)	182° C (360° F)	9:30 - 10:00 min.
	1.47 - 1.59 Kgs (3.25 - 3.50 lbs.)	182° C (360° F)	10:00 - 10:30 min.
Whole Chicken	1.02 - 1.13 Kgs (2.25 - 2.50 lbs.)	182° C (360° F)	12:00 - 13:00 min.
Potatoes	Quartered	182° C (360° F)	7:00 - 8:00 min.
Pork Ribs	0.90 Kgs (2.00 lbs.) and Under	182° C (360° F)	6:00 - 7:00 min.
Pork Chops	19.05 mm (3/4 In) Thick	182° C (360° F)	5:00 min.
Liver	6.35 mm (1/4 In) Thick	182° C (360° F)	1 1/2 min.
Fish	0.09 Kgs (3 oz.) Filets	182° C (360° F)	3:00 - 4:00 min.
Onion Rings	9.53 - 12.70 mm (3/8 - 1/2 In) Thick	182° C (360° F)	2:00 - 3:00 min.

INDIVIDUALLY QUICK FROZEN (IQF) CHICKEN, FROZEN



WARNING ALWAYS COOK ALL
BROASTER RECIPE
PRODUCTS UNTIL THE INTERNAL
TEMPERATURE REACHES THE
FOLLOWING MINIMUMS:

Chicken, White - 170°F;
Chicken, Dark - 180°F;
Corn Dogs/Pork - 160 to 170°F;
Fish - 155°F

Keep uncooked product frozen at 0°F or below at all times.

Maximum Load Size:

- 1600: 2 chickens (16 pieces)
- 1800: 4 chickens (32 pieces)

PRODUCT	MAXIMUM LOAD	TEMPERATURE	TIME
Thighs	1600: 10 pieces. 1800: 20 pieces.	168° C (335° F)	15:00 - 17:00 min.
Legs	1600: 16 pieces. 1800: 32 pieces.	168° C (335° F)	15:00 - 17:00 min.
Breasts	1600: 8 pieces 1800: 16 pieces.	168° C (335° F)	17:00 - 19:00 min.
Wings	1600: 20 pieces. 1800: 40 pieces.	168° C (335° F)	12:00 - 14:00 min.
Mixed Load	1600: 16 pieces. 1800: 32 pieces.	168° C (335° F)	17:00 - 19:00 min.

1600 BROASTER RECIPE PRODUCTS COOKING CHART

All cook times are approximate and will vary depending on load size, etc.

Product Description	Package Description	Product Number	Lbs/Case	Cooking Time	Cooking Temperature	Approx. Load - Kgs (Lbs.)	
						MIN	MAX
Jumbo Popcorn Chicken	2/5# bags	96262	10	4 - 4.5 Min.	182°C (360°F)	.45 Kgs (1 lb.)	1.8 Kgs (4 lbs)
Cajun Jumbo Popcorn Chicken	2/5# bags	96277	10	4 - 4.5 Min.	182°C (360°F)	.45 Kgs (1 lb.)	1.8 Kgs (4 lbs)
Chicken Tenders	2/5# bags	96641	10	5 - 6 Min.	182°C (360°F)	.45 Kgs (1 lb.)	1.8 Kgs (4 lbs)
Zesty Home Style Chicken Tenders	2/5# bags	96349	10	5 - 6 Min.	182°C (360°F)	.45 Kgs (1 lb.)	1.8 Kgs (4 lbs)
Chicken Fillets	2/5# bags	96638	10	6 - 7 Min.	182°C (360°F)	.45 Kgs (1 lb.)	1.8 Kgs (4 lbs)
Traditional Wings	2/5# bags	96261	10	8 - 10 Min.	182°C (360°F)	.45 Kgs (1 lb.)	1.8 Kgs (4 lbs)
Hot 'N Spicy Wings	4/5# bags	96639	20	8 - 10 Min.	182°C (360°F)	.45 Kgs (1 lb.)	1.8 Kgs (4 lbs)
Boneless Buffalo Wings	2/5# bags	96318	10	5 - 6 Min.	182°C (360°F)	.45 Kgs (1 lb.)	1.8 Kgs (4 lbs)
Fully-Cooked Oven Roasted Chicken Wings	2/5# bags	96351	10	6 - 7 Min.	182°C (360°F)	.23 Kgs (0.5 lb.)	1.36 Kgs (3 lbs)
Chicken Gizzards	Bulk Packed	96271	10	4 - 6 Min.	182°C (360°F)	.45 Kgs (1 lb.)	1.8 Kgs (4 lbs)
Jumbo Corn Dogs	Bulk Packed	96661	10	Thawed 6 - 7 Min.	182°C (360°F)	.45 Kgs (1 lb.)	1.8 Kgs (4 lbs)
Jumbo Corn Dogs	Bulk Packed	96661	10	Thawed 7 - 8 Min.	168°C (335°F)	.45 Kgs (1 lbs.)	1.8 Kgs (4 lbs)
Jumbo Corn Dogs	Bulk Packed	96661	10	Frozen 13 - 14 Min.	168°C (335°F)	.45 Kgs (1 lbs.)	1.8 Kgs (4 lbs)
Pork Tenderloin	Bulk Packed	96313	9.75	3 - 3.5 Min.	182°C (360°F)	.45 Kgs (1 lbs.)	1.8 Kgs (4 lbs)
Deluxe Pizza Burritos	48 in 7 trays	96316	15	6.5 - 7.5 Min.	182°C (360°F)	.23 Kgs (0.5 lb.)	.68 Kgs (1.5 lbs)
Deluxe Beef 'n Bean Burritos	48 in 7 trays	96317	15	5.5 - 6.5 Min.	182°C (360°F)	.23 Kgs (0.5 lb.)	.68 Kgs (1.5 lbs)
Deluxe Breakfast Burritos	48 in 7 trays	96323	15	6.5 - 7.5 Min.	182°C (360°F)	.23 Kgs (0.5 lb.)	.68 Kgs (1.5 lbs)
Catfish Tender Strips	Bulk Packed	96340	10	3.5 - 4 Min.	182°C (360°F)	.45 Kgs (1 lbs.)	1.8 Kgs (4 lbs)
Hand-Breaded Style Catfish Fillets	Bulk Packed	96354	10	4 - 5 Min.	182°C (360°F)	.45 Kgs (1 lbs.)	1.8 Kgs (4 lbs)
Premium Cod Fillets (2 oz. Natural Cut)	2/5# bags	96329	10	4 - 5 Min.	182°C (360°F)	.23 Kgs (0.5 lb.)	1.36 Kgs (3 lbs)
Premium Cod Fillets (4 oz. Natural Cut)	2/5# bags	96295	10	5 - 6 Min.	182°C (360°F)	.23 Kgs (0.5 lb.)	1.36 Kgs (3 lbs)
Premium Beer-Battered Recipe Shrimp (tail-off)	Bulk Packed	96286	8	2.5 - 3 Min.	182°C (360°F)	.23 Kgs (0.5 lb.)	1.36 Kgs (3 lbs)
Potato Wedges	6/5# bags	96698	30	4 - 4.5 Min.	182°C (360°F)	.45 Kgs (1 lbs.)	1.8 Kgs (4 lbs)
Potato Slices	6/5# bags	96258	30	3 - 3.5 Min.	182°C (360°F)	.45 Kgs (1 lbs.)	1.8 Kgs (4 lbs)
Italian-Style 3-Cheese Mozzarella Sticks	4/3# bags	96279	12	1¼ - 1½ Min.	182°C (360°F)	.45 Kgs (1 lbs.)	1.8 Kgs (4 lbs)
Beer Battered Onion Rings	20/8 oz. bags	96287	10	1¼ - 1½ Min.	182°C (360°F)	.45 Kgs (1 lbs.)	1.8 Kgs (4 lbs)
Natural Cheddar Nuggets	Bulk Packed	96324	7	1¼ - 1½ Min.	182°C (360°F)	.45 Kgs (1 lbs.)	1.8 Kgs (4 lbs)
Jalapeno Peppers	4/3# bags	96325	12	1¾ - 2¼ Min.	182°C (360°F)	.45 Kgs (1 lbs.)	1.8 Kgs (4 lbs)

ALWAYS COOK ALL BROASTER RECIPE PRODUCTS UNTIL THE INTERNAL TEMPERATURE REACHES THE FOLLOWING MINIMUMS:
 Chicken, White - 170°F; Chicken, Dark - 180°F; Corn Dogs/Pork - 160°F to 170°F; Fish - 155°F

1800 BROASTER RECIPE PRODUCTS COOKING CHART

All cook times are approximate and will vary depending on load size, etc.

Product Description	Package Description	Product Number	Lbs/Case	Cooking Time	Cooking Temperature	Approx. Load - Kgs (Lbs.)	
						MIN	MAX
Jumbo Popcorn Chicken	2/5# bags	96262	10	4 - 4.5 Min.	182°C (360°F)	.45 Kgs (1 lb.)	3.63 Kgs (8 lbs)
Cajun Jumbo Popcorn Chicken	2/5# bags	96277	10	4 - 4.5 Min.	182°C (360°F)	.45 Kgs (1 lb.)	3.63 Kgs (8 lbs)
Chicken Tenders	2/5# bags	96641	10	5 - 6 Min.	182°C (360°F)	.45 Kgs (1 lb.)	3.63 Kgs (8 lbs)
Zesty Home Style Chicken Tenders	2/5# bags	96349	10	5 - 6 Min.	182°C (360°F)	.45 Kgs (1 lb.)	3.63 Kgs (8 lbs)
Chicken Fillets	2/5# bags	96638	10	6 - 7 Min.	182°C (360°F)	.45 Kgs (1 lb.)	3.63 Kgs (8 lbs)
Traditional Wings	2/5# bags	96261	10	8 - 10 Min.	182°C (360°F)	.45 Kgs (1 lb.)	3.63 Kgs (8 lbs)
Hot 'N Spicy Wings	4/5# bags	96639	20	8 - 10 Min.	182°C (360°F)	.45 Kgs (1 lb.)	3.63 Kgs (8 lbs)
Boneless Buffalo Wings	2/5# bags	96318	10	5 - 6 Min.	182°C (360°F)	.45 Kgs (1 lb.)	3.63 Kgs (8 lbs)
Fully-Cooked Oven Roasted Chicken Wings	2/5# bags	96351	10	6 - 7 Min.	182°C (360°F)	.23 Kgs (0.5 lb.)	2.72 Kgs (6 lbs)
Chicken Gizzards	Bulk Packed	96271	10	4 - 6 Min.	182°C (360°F)	.45 Kgs (1 lb.)	3.63 Kgs (8 lbs)
Jumbo Corn Dogs	Bulk Packed	96661	10	Thawed 6 - 7 Min.	182°C (360°F)	.45 Kgs (1 lb.)	3.63 Kgs (8 lbs)
Jumbo Corn Dogs	Bulk Packed	96661	10	Thawed 7 - 8 Min.	168°C (335°F)	.45 Kgs (1 lbs.)	3.63 Kgs (8 lbs)
Jumbo Corn Dogs	Bulk Packed	96661	10	Frozen 13 - 14 Min.	168°C (335°F)	.45 Kgs (1 lbs.)	3.63 Kgs (8 lbs)
Pork Tenderloin	Bulk Packed	96313	9.75	3 - 3.5 Min.	182°C (360°F)	.45 Kgs (1 lbs.)	3.63 Kgs (8 lbs)
Deluxe Pizza Burritos	48 in 7 trays	96316	15	6.5 - 7.5 Min.	182°C (360°F)	.45 Kgs (1 lbs.)	1.13 Kgs (2.5 lb)
Deluxe Beef 'n Bean Burritos	48 in 7 trays	96317	15	5.5 - 6.5 Min.	182°C (360°F)	.45 Kgs (1 lbs.)	1.13 Kgs (2.5 lb)
Deluxe Breakfast Burritos	48 in 7 trays	96323	15	6.5 - 7.5 Min	182°C (360°F)	.45 Kgs (1 lbs.)	1.13 Kgs (2.5 lb)
Catfish Tender Strips	Bulk Packed	96340	10	3.5 - 4 Min	182°C (360°F)	.45 Kgs (1 lbs.)	3.63 Kgs (8 lbs)
Hand-Breaded Style Catfish Fillets	Bulk Packed	96354	10	4 - 5 Min	182°C (360°F)	.45 Kgs (1 lbs.)	3.63 Kgs (8 lbs)
Premium Cod Fillets (2 oz. Natural Cut)	2/5# bags	96329	10	4 - 5 Min.	182°C (360°F)	.23 Kgs (0.5 lb.)	2.72 Kgs (6 lbs)
Premium Cod Fillets (4 oz. Natural Cut)	2/5# bags	96295	10	5 - 6 Min.	182°C (360°F)	.23 Kgs (0.5 lb.)	2.72 Kgs (6 lbs)
Premium Beer-Battered Recipe Shrimp (tail-off)	Bulk Packed	96286	8	2.5 - 3 Min.	182°C (360°F)	.23 Kgs (0.5 lb.)	2.72 Kgs (6 lbs)
Potato Wedges	6/5# bags	96698	30	4 - 4.5 Min.	182°C (360°F)	.45 Kgs (1 lbs.)	3.63 Kgs (8 lbs)
Potato Slices	6/5# bags	96258	30	3 - 3.5 Min.	182°C (360°F)	.45 Kgs (1 lbs.)	3.63 Kgs (8 lbs)
Italian-Style 3-Cheese Mozzarella Sticks	4/3# bags	96279	12	1¼ - 1½ Min.	182°C (360°F)	.45 Kgs (1 lbs.)	3.63 Kgs (8 lbs)
Beer Battered Onion Rings	20/8 oz. bags	96287	10	1¼ - 1½ Min.	182°C (360°F)	.45 Kgs (1 lbs.)	3.63 Kgs (8 lbs)
Natural Cheddar Nuggets	Bulk Packed	96324	7	1¼ - 1½ Min.	182°C (360°F)	.45 Kgs (1 lbs.)	3.63 Kgs (8 lbs)
Jalapeno Peppers	4/3# bags	96325	12	1¾ - 2¼ Min.	182°C (360°F)	.45 Kgs (1 lbs.)	3.63 Kgs (8 lbs)

ALWAYS COOK ALL BROASTER RECIPE PRODUCTS UNTIL THE INTERNAL TEMPERATURE REACHES THE FOLLOWING MINIMUMS:
 Chicken, White - 170°F; Chicken, Dark - 180°F; Corn Dogs/Pork - 160°F to 170°F; Fish - 155°F

8 - COOKING OIL CARE AND FILTERING

OIL CARE

IMPORTANT

- Store cooking oil at room temperature: 65° - 75° F.
- Do not reuse the oil container.
- Keep oil away from heat and flames.
- Do not store oil near oxidizing agents.



Use care when handling hot oil. Oil could splash

causing serious burns.

Maximum oil life depends on proper care. See FILTERING and CLEANING. It is very important if the finished product is to be presentable and edible. Useful oil life can be affected by many things:

Oil Quality: Poor quality oil will require replacement more often.

Temperature: Lowering oil temperature setting during slow periods or between business rushes will extend useful oil life.

Volume: The more product cooked, the more often oil will need filtering and replacing.

Type of Coating and Seasoning Used: Ingredients in some coatings can effect the appearance of end product and shorten the useful oil life.

Amount of Care and Filtering Oil

Receives: **DO NOT** leave any crumb build up in oil, on cooking well or on food basket. See FILTERING. Oil will need replacing more often if improperly maintained. Straining methods only remove crumbs. Using a

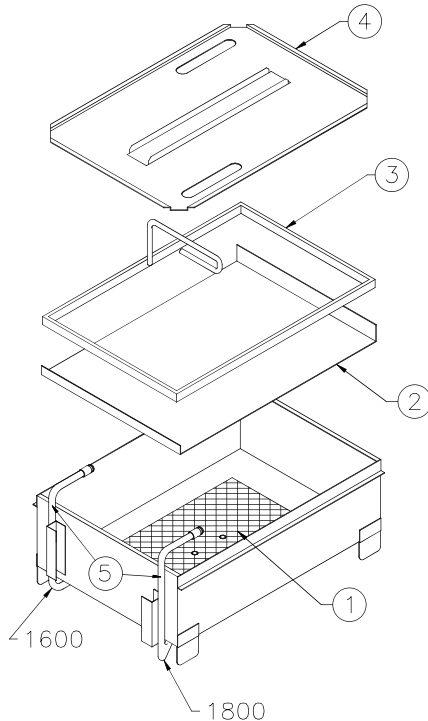
built in filter, Broaster® filter paper and Broaster® filtering compounds, you can increase useful oil life up to 200%.

How can you tell if oil should be replaced? It will show signs of increased smoking or foaming. If not discarded, safety and product quality could be sacrificed.

FILTERING

Filter oil after cooking approximately 35 lbs. (1600) or 65 lbs. (1800) of product, between rush periods and always at the end of each day. Filter oil at 360°F.

⚠ WARNING **DO NOT use filter pan to transport hot oil. Hot oil could splash causing serious burns.**



Be sure filter components are assembled correctly. Correct order is (1) Filter Screen on bottom of filter pan, (2) Filter Paper, (3) Filter Hold Down, one cup (1600) or two cups (1800) of Bro-Clean filtering media on top of filter paper and/or 5 oz. (1600) or 10 oz. (1800) of XL filtering compound to cooking well, and (4) Filter Cover. For best results change paper after each filter cycle.

1. Be sure filter pan, with components, is installed under unit properly. Make sure O-ring is installed on (5) 1800 Riser Line or inside (5) 1600 Suction Line. Ensure that riser line is fully inserted into suction line.

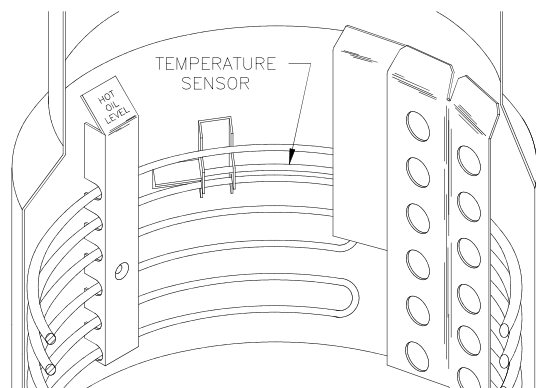
⚠ WARNING **DO NOT open drain valve while the controller is displaying the Cook Screen.**

2. Using a ram rod, stir oil in a circular motion. This will aid in draining crumbs. Pull cover over cooking well and open drain valve slowly. If valve becomes obstructed with crumbs, use ram rod to unblock valve.

⚠ CAUTION **DO NOT allow ramrod point to hit bottom of filter pan. Point of ramrod can penetrate filter paper allowing crumbs and filter compound to pass through filter lines.**

3. When oil is drained, pull cover over cooking well completely but **DO NOT CLOSE**. On the Filter Tab of the controller, press the Start Pump button. When oil is flowing out of drain, close drain valve and pump approximately 4 inches (1600) or 8 inches (1800) of oil into cooking well then press the Stop Pump button.
4. Being careful of hot oil and cooking well components, use bottom brush to scrub cooking well starting at the top and cleaning downward. On electric units, clean inside and between heating elements. Use element brush to clean between cooking well and heating elements. Be sure no crumbs cover temperature sensor.

Temperature Sensor Location:



5. Slowly agitate brush in oil to dislodge any crumbs caught in it. Rinse cooking well using oil remaining in brush when dipped in oil. Drain remaining oil and crumbs. Pull cover over cooking well but **DO NOT CLOSE**. Press the Start Pump button. After 5 minutes, push cover assembly toward the rear of the unit. Close drain valve.
6. When air bubbles appear press STOP PUMP, then press the red X to exit the FILTER TAB. The CHECK OIL LEVEL screen will appear as a reminder to check the oil level in the cooking well.

⚠ WARNING Be sure hot oil is at **HOT OIL LEVEL** and top heating element is covered before starting another cooking cycle.

7. When filter pan has cooled, remove and discard filter paper and filtering compound. Using a clean cloth or paper towel, wipe crumbs from filter hold down ring, filter pan interior. Completely clean the filter pan cover. Never use soap and water.

⚠ WARNING Rags or paper containing cooking oil can catch fire if exposed to heat. Laundering will not remove the oil. Dispose of all oil-soiled papers and rags in a trash container that is in a ventilated area away from all cooking equipment or other heat sources such as direct sunlight.

⚠ WARNING **DO NOT** operate unit without filter pan and filter pan cover in its proper position. Filter pan cover must be wiped clean after each filtering cycle.

8. Return clean Filter Pan (equipped with all necessary clean filter components including cover) under the fryer before operation.

FILTERING HINTS

1. Never allow solid shortening to solidify in filter pan or lines.
2. For maximum filtration, recirculate oil. When hot oil is drained into filter pan, start the filter pump and let motor run for five minutes with drain valve open. This could extend useful oil life.

NOTICE Ensure filter pump is off to avoid splashing of oil if motor protector reset button is used.

9 - CLEANING



DO NOT heat or boil water in a pressure fryer.

Disconnect main power supply. Keep cover and pressure regulating valve **OPEN** when cooking well contains water. If cover is **CLOSED** on a well holding hot or boiling water, a large quantity of scalding water could spray out when cover is opened causing serious burns.



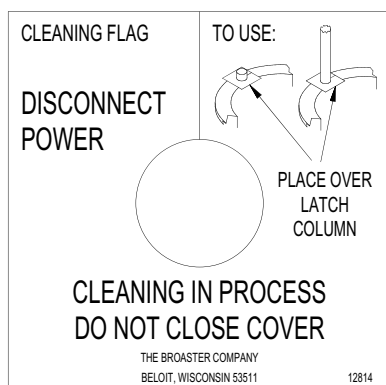
Broaster® cooking well cleaner is an irritant. **DO**

NOT take internally. Prolonged skin contact may cause irritation and dryness. Direct eye contact can cause irritation, redness and temporary blurred vision. Ingestion could cause nausea, diarrhea, mucosa and gastric irritation. See first aid instructions on container.



When cleaning with water, use Broaster®

cooking well cleaner #99500. **DO NOT** use soaps and detergents. Cooking well cleaner removes unwanted contaminants while also neutralizing harmful acids. These acids, if not removed, may damage cooking well and filter system. To ensure cover remains **OPEN** when cleaning, install cleaning flag #12814 over latch column. Cleaning flag is supplied with each new unit and in cooking well cleaner. Additional cleaning flags can be ordered.



COOKING WELL

1. Turn power switch OFF and disconnect main power supply.
2. Remove filter pan (if your unit has one) from under unit.
3. Drain and discard used oil.
4. OPEN cover and install cleaning flag #12814 over latch column.

NOTICE

Quarterly cleaning of Probe Guard (gas & electric) should be done at this point. See **PROBE GUARD & BASKET GUIDE CLEANING.**

5. Close drain valve. Fill cooking well (1600: 4.5 gallons OR 1800: 9 gallons) with warm tap water. Thoroughly dissolve 4.5 oz. (1600) OR 9.0 oz. (1800) of Broaster® cooking well cleaner in the water.
6. Soak with cover OPEN for a minimum of 15 minutes. Alternate method: soak overnight up to 12 hours.
7. Drain and discard cleaning mixture.
8. Clean cooking well using a non-metallic heavy duty commercial scouring pad that is USDA approved.
9. Rinse cleaning utensils and cooking well with water.
10. Rinse with clear water. Drain and discard rinse water.

11. Connect main power supply. Turn power switch on and start the filter pump from filter tab and run for 5 seconds to clear filter lines. Turn filter off, drain and discard mixture.
12. Close drain valve. Wipe inside of cooking well dry before filling with new oil.

FOOD BASKET

Clean the food basket daily. **DO NOT** put food basket in a dishwasher. Use warm water and a low suds organic household dish cleanser. Rinse basket with vinegar and water solution (1/2 cup vinegar per gallon of water). Rinse with clear water and completely dry before returning to oil.

UNIT SURFACES

Frequently wipe off excess oil and crumbs with a clean cloth or paper towel. **DO NOT** use harsh abrasives and chemicals.

⚠ WARNING Rags or paper containing cooking oil can catch fire if exposed to heat. Laundering will not remove the oil. Dispose of all oil-soiled papers and rags in a trash container that is in a ventilated area away from all cooking equipment or other heat sources such as direct sunlight.

CONDENSATE PAN

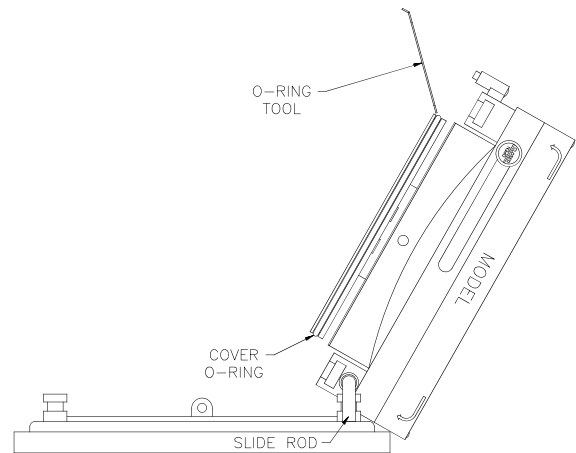
Check liquid level several times daily. Empty as needed.

⚠ WARNING Water and hot oil **DO NOT** mix. **DO NOT** pour contents into cooking well or filter pan. Hot oil could splash causing serious burns.

SLIDE ROD

Clean daily along with the cover, see COVER. Wipe with a clean cloth or paper towel. No lubrication is necessary.

COVER



NOTICE

Keep a spare O-ring on hand in case of accidental damage.

1. OPEN cover and slide back 2 to 3 inches.
2. Lift up on left side and pivot assembly to an upright position. **DO NOT** drop assembly.
3. Rotate cover handle to **CLOSED** position and push in on center of cover bottom to lock cover and handle. Using O-ring tool #12791 or a small dull tool such as a spoon handle, remove cover O-ring.
4. Clean O-ring using warm water only. **DO NOT** use detergents. Hold wet rag around O-ring and pull through several times.
5. Clean O-ring groove and cover top and bottom. Use O-ring tool #12791 to clean O-ring groove. Use a non-metallic heavy duty commercial scouring pad that is USDA approved to clean cover.
6. Remove any oil or grease build-up from Pressure Relief Valve and Pressure Gauge Ports on bottom of cover.

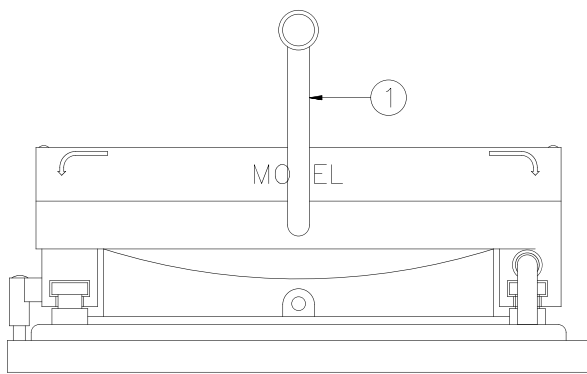
7. After cleaning, completely dry. Lubricate O-ring with clean liquid shortening. Install O-ring in O-ring groove.

SPLASH SHIELD

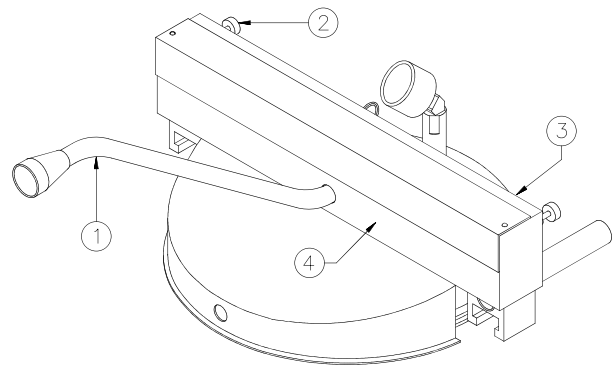
⚠ WARNING Allow cover assembly to cool before cleaning. Hot surfaces could cause serious burns.

If your unit is equipped with a two piece splash guard, clean it according to the following instructions:

1. OPEN cover and slide back 2 to 3 inches.
2. Rotate cover handle (1) to a centered position.



3. Loosen screws (2) attaching back splash shield (3) to splash shield (4).



4. Slide splash shield (4) forward and up towards the end of the cover handle (1).
5. Clean the top and underside of splash shield and top of the cover.

NOTICE Make sure back splash shield (3) and splash shield (4) are assembled correctly after cleaning. The cover may not close correctly if they are not.

6. Assemble in reverse order.

Filter Pan & Cover

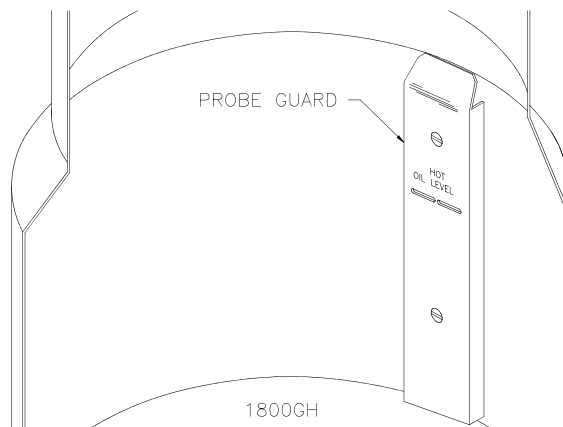
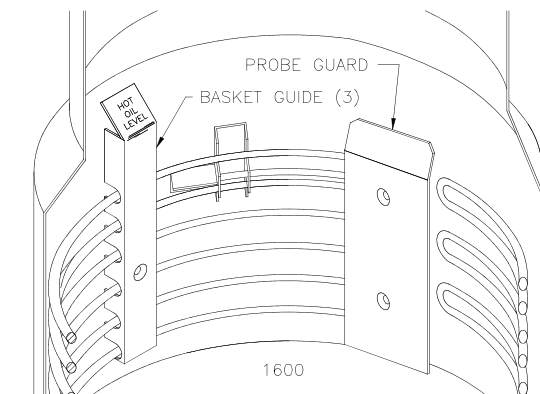
Wipe all oil off filter pan and both sides of the filter pan cover.

⚠ WARNING Rags or paper containing cooking oil can catch fire if exposed to heat. Laundering will not remove the oil. Dispose of all oil-soiled papers and rags in a trash container that is in a ventilated area away from all cooking equipment or other heat sources such as direct sunlight.

Probe Guard & Basket Guides

At least once every 3 months, while cleaning the cooking well, the probe guard and basket guides need to be removed so that any build-up that collects behind them can be cleaned.

1. After emptying the oil and before filling with cleaning solution, remove the probe guard using a flat screwdriver, for Models 1600 and 1800GH, or a 7/16" wrench for the Model 1800E. Remove the probe guard. (See illustrations below)
2. Very carefully remove any debris that is caked on/or around the temperature sensor probe and the hi-limit capillary.
3. On electric fryers, remove the 3 basket guides using a flat screwdriver. Leave the element spacers in place. Carefully clean any build-up that has collected behind the basket guides.



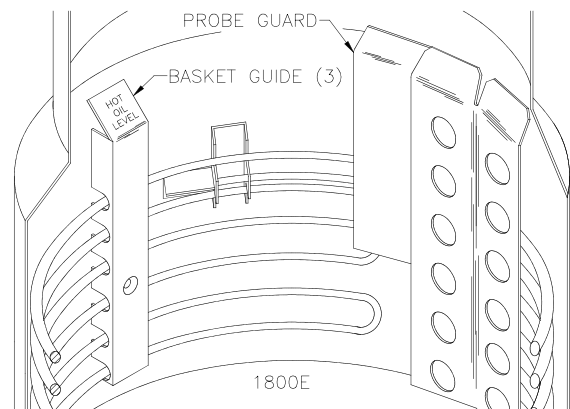
CAUTION

Using too much force in this area could result in damage to either the hi-limit capillary or the temperature sensor probe. If either of these components are damaged, the unit will be inoperable until the component is replaced.

4. Leaving the probe guard and basket guides off, fill the cooking well with cleaning solution and clean normally. The probe guard and basket guides can be placed in the cooking well while soaking.
5. After draining the solution, carefully clean area around the probes and behind the basket guides, and inside of the probe guard and basket guides with a non-metallic scouring pad to completely remove any build-up. Rinse and dry the cooking well.
6. Reinstall the probe guard and basket guides with the appropriate hardware using medium (blue) thread lock on screw threads.

CAUTION

It is very important to periodically check the screws fastening the probe guard and basket guides to ensure that they do not loosen. If you find that they are coming loose, tighten them immediately.



MINIMUM PREVENTIVE MAINTENANCE REQUIREMENTS

	DAILY	WEEKLY	QUARTERLY	YEARLY
Clean Cooking Well		X		
Clean Condensate Pan	X			
Clean Oil Build-up under unit				X
Clean Pressure Relief Valve port & Pressure Gauge Port		X		
Clean Cover and Splash Guard		X		
Clean Food Basket	X			
Clean Temperature Sensor			X	
Clean Filter Pan Cover	After each filtering cycle			
Filter Cooking Oil	See FILTERING			
Clean and Lubricate O-Ring		X		
Slide Rod	X			
Probe Guard & Basket Guides			X	

NOTICE

If cooking volume is high, perform above requirements more frequently.

10 - SHUTDOWN



WARNING If at any time the controller stays on when the power switch is moved to the OFF position, disconnect the power to the unit and contact your local Broaster Company representative for service immediately.



WARNING Rags or paper containing cooking oil can catch fire if exposed to heat. Laundering will not remove the oil. Dispose of all oil-soiled papers and rags in a trash container that is in a ventilated area away from all cooking equipment or other heat sources such as direct sunlight.

NIGHTLY SHUTDOWN:

1. Turn power switch OFF.
2. Filter cooking oil. See COOKING OIL CARE AND FILTERING.
3. 1800GH: Turn gas valve and manual gas shut off valve to OFF.
4. Wipe oil and crumbs from unit surfaces with a clean cloth.
5. Clean food basket.
6. Clean condensate pan.

SEASONAL SHUTDOWN:

1. See COOKING OIL CARE AND FILTERING. Discard cooking oil.
2. See CLEANING.
3. Turn main circuit breaker OFF and unplug electrical cord (1800GH).
4. 1800GH: Turn gas valve, manual gas shut off valve and main gas supply OFF.
5. Clean condensate pan.
6. Wipe oil and crumbs from unit surfaces with a clean cloth.
7. Lubricate cover O-ring and food basket with olive oil.
8. CLOSE cover and pressure regulating valve.

11 - TROUBLESHOOTING

NOTICE

Check all wire connections before replacing any part.

ELECTRICAL TIPS

COMPLAINT	CAUSE	REMEDY
POWER ON light not illuminated	<ol style="list-style-type: none"> 1. Hi-limit tripped 2. Faulty light 3. Faulty cook/filter switch 4. Faulty Fuse 	<ol style="list-style-type: none"> 1. Reset or replace 2. Replace 3. Replace 4. Replace
Timer will not time	<ol style="list-style-type: none"> 1. Controller in program mode 2. Pressure regulating valve OPEN 3. Microswitch faulty or out of adjustment 	<ol style="list-style-type: none"> 1. Exit program mode 2. CLOSE 3. Replace or adjust
HEAT ON light not illuminated	<ol style="list-style-type: none"> 1. Controller in program mode 2. Faulty light or controller 3. Faulty temperature control 	<ol style="list-style-type: none"> 1. Exit program mode 2. Replace controller 3. Replace
Hi-limit will not reset	<ol style="list-style-type: none"> 1. Cooking oil temperature too high 2. Faulty hi-limit 	<ol style="list-style-type: none"> 1. Allow oil to cool approximately 100°F 2. Replace
Heating element(s) won't heat	<ol style="list-style-type: none"> 1. Controller in program mode 2. Faulty element(s) 3. Faulty contactor 	<ol style="list-style-type: none"> 1. Exit program mode 2. Replace 3. Replace
Cooking oil temperature too hot or too cold	<ol style="list-style-type: none"> 1. Controller in program mode 2. Check controller calibration 3. Faulty contactor (2400E) 4. Faulty controller 5. Faulty temperature sensor probe 6. Faulty gas valve (2400GH) 7. Faulty element(s) (2400E) 	<ol style="list-style-type: none"> 1. Exit program mode 2. See CALIBRATION 3. Replace 4. Replace 5. Replace 6. Replace 7. Replace

SOLID STATE CONTROLLER TIPS

COMPLAINT	CAUSE	REMEDY
Display reads FAIL	1. There is a controller failure	1. Turn power switch OFF. Contact service person.
Display reads HI	1. Oil temperature too high	1. Turn power switch OFF. Contact service person.
Display reads PROB	1. There is a temperature sensor probe failure	1. Turn power switch OFF. Contact service person.
Display reads CHEC	1. Gas valve not ON (1800GH) 2. Pilot light will not light (1800GH) 3. Oil temperature not rising properly	1. Turn ON 2. Turn ON manual gas shut off valve 3. Turn power switch OFF. Contact service person.

2400GH GAS TIPS

COMPLAINT	CAUSE	REMEDY
Pilot burner won't light	<ol style="list-style-type: none"> 1. Gas valve OFF 2. Air in gas line 3. Gas shut-off valve OFF 4. Pilot burner flame too small 5. Gas pressure too high 	<ol style="list-style-type: none"> 1. Turn ON 2. Tighten 3. Replace 4. Adjust flame 5. Install pressure regulator
Main burner will not turn on	<ol style="list-style-type: none"> 1. Gas valve not ON 2. Controller in program mode 3. No electrical power to the gas valve 4. Faulty gas valve 5. Loose gas valve wire harness 6. Faulty flame sensor 7. Open or faulty wall fuse 	<ol style="list-style-type: none"> 1. Turn On 2. Exit program mode 3. Check circuit 4. Replace 5. Check connections 6. Replace 7. Check wall fuse or circuit-breaker

COVER, YOKE, AND SLIDE TIPS

COMPLAINT	CAUSE	REMEDY
Cover hard to CLOSE	<ol style="list-style-type: none"> 1. O-ring groove and O-ring dry or dirty 2. Hard O-ring 3. Teflon bearing out of adjustment or worn 4. Cover not centered 5. Lifter box dirty or dry 	<ol style="list-style-type: none"> 1. Clean and lubricate 2. Replace 3. Adjust or replace 4. Center 5. Clean and lubricate
Cover won't OPEN ⚠ WARNING Never use force to OPEN cover.	<ol style="list-style-type: none"> 1. O-ring groove and O-ring dry or dirty 2. Pressure not released 3. Pressure regulating valve out of adjustment 	<ol style="list-style-type: none"> 1. Clean and lubricate 2. OPEN pressure regulating valve 3. Adjust valve
Cover hard to move from front of the unit to the rear	<ol style="list-style-type: none"> 1. Yoke bearings and slide rod dirty 	<ol style="list-style-type: none"> 1. Clean
O-ring breaking ⚠ CAUTION DO NOT rest basket on top flange of cooking well. Damage to area in contact with o-ring can cause leaking under pressure or O-ring failure.	<ol style="list-style-type: none"> 1. Dirty O-ring groove 2. Nicks in cooking well or cover 	<ol style="list-style-type: none"> 1. Clean 2. Remove nicks
Cover won't remain in raised position	<ol style="list-style-type: none"> 1. Weak gas spring 	<ol style="list-style-type: none"> 1. Replace

PRESSURE SYSTEM TIPS



DO NOT attempt to tighten, repair or replace any fitting, line or component when there is pressure in the cooking well. Hot oil could spray out under pressure causing serious burns.

COMPLAINT	CAUSE	REMEDY
No pressure	<ol style="list-style-type: none">1. Pressure regulating valve OPEN2. Pressure regulating valve dirty or blocked open3. Leaks around cover O-ring4. Cover cold5. Low cooking oil temperature6. Faulty safety relief valve7. Pressure valve out of adjustment8. Faulty pressure gauge	<ol style="list-style-type: none">1. CLOSE2. Use repair kit3. Replace O-ring and center cover4. Pre-heat cover5. Check programmed temperature6. Replace7. Adjust8. Replace
Excess pressure	<ol style="list-style-type: none">1. Restriction in exhaust system2. Overloaded with fresh product3. Faulty pressure gauge	<ol style="list-style-type: none">1. Locate, remove then clean2. Decrease load3. Replace

PRODUCT TIPS

Fresh Chicken:

COMPLAINT	CAUSE	REMEDY
Product too light	<ol style="list-style-type: none">1. Low cooking oil temperature2. Wrong coating3. No coating4. Not done5. Food basket overloaded	<ol style="list-style-type: none">1. Check cook temperature2. Check procedures3. Check procedures4. Increase cook time5. Decrease product load
Product too dark	<ol style="list-style-type: none">1. High cooking oil temperature2. Product cooked too long3. Wrong coating4. Coated product held in refrigeration too long5. Dirty cooking oil	<ol style="list-style-type: none">1. Check cook temperature2. Decrease time3. Check procedures4. Rinse then recoat5. Filter or replace
Product not done	<ol style="list-style-type: none">1. Low cooking oil temperature2. Food basket overloaded3. Cook time too short4. Frozen product	<ol style="list-style-type: none">1. Check cook temperature2. Decrease product load3. Increase cook time4. Increase cook time
No flavor	<ol style="list-style-type: none">1. Improper marination	<ol style="list-style-type: none">1. Check procedures
White spots on product	<ol style="list-style-type: none">1. Product stuck together while loading2. Food basket overloaded	<ol style="list-style-type: none">1. Float food basket while loading2. Decrease load size
Dark spots on product	<ol style="list-style-type: none">1. Dirty oil	<ol style="list-style-type: none">1. Filter or replace

Frozen IQF Chicken:

COMPLAINT	CAUSE	REMEDY
Product too light	<ol style="list-style-type: none">1. Low oil temperature2. Not done3. Food basket overloaded	<ol style="list-style-type: none">1. Check cook temperature2. Increase cook time3. Decrease load
Product too dark	<ol style="list-style-type: none">1. High oil temperature2. Overcooked3. Oil old4. Thawed and refrozen	<ol style="list-style-type: none">1. Check cook temperature2. Decrease cook time3. Change oil4. Keep product at 0°F or below
Product not done	<ol style="list-style-type: none">1. Low oil temperature2. Food basket overloaded3. Cook time too short	<ol style="list-style-type: none">1. Check cook temperature2. Decrease load3. Increase cook time
No flavor	<ol style="list-style-type: none">1. Overcooked2. Old product	<ol style="list-style-type: none">1. Check cook time2. Discard
White spots	<ol style="list-style-type: none">1. Product stuck together2. Food basket overloaded	<ol style="list-style-type: none">1. Float basket while loading2. Decrease load size
Dark spots	<ol style="list-style-type: none">1. Dirty oil	<ol style="list-style-type: none">1. Filter or replace

FILTERING TIPS

COMPLAINT	CAUSE	REMEDY
Motor will not start ⚠️ WARNING Turn cook/filter switch to OFF position to avoid splashing of oil when motor protector reset button is pushed.	1. Overload tripped 2. Cook/filter switch OFF 3. Open or faulty wall fuse or circuit breaker	1. Wait for overload to cool. Push red motor protector reset button located on rear of motor. 2. Turn to FILTER 3. Check wall fuse or circuit breaker
Motor hums but will not start	1. Solidified shortening in pump 2. Crumbs in pump 3. Faulty motor	1. Turn cook/filter switch OFF. Clean pump. 2. Turn cook/filter switch OFF. Clean pump. 3. Replace motor.
Motor starts but will not pump	1. Filter pan not completely installed 2. O-ring on riser line not installed 3. Solidified shortening in piping or filter pan	1. Firmly push filter pan in 2. See FILTERING 3. Turn cook/filter switch OFF. Contact service person.
Motor starts but will not pump or stops at any level	1. Filter paper or hold down improperly installed 2. Not using enough Broaster filtering compound	1. See COOKING OIL CARE AND FILTERING 2. Next filtering cycle, make sure proper amount of Broaster filtering compound is used
Motor starts but stops pumping when oil is level with top of hold down, approximately 1 inch of oil in bottom	1. Filter paper improperly installed or crumbs under filter paper or hold down	1. See COOKING OIL CARE AND FILTERING



Broaster Company
2855 Cranston Road, Beloit, WI 53511-3991
608/365-0193
broaster.com