## BROASTER <br> EQUIPMENT

## OPERATION MANUAL <br> BROASTER® 2400 <br> PRESSURE FRYER

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


Genuine Broaster Chicken®, Broasted $®$, Broaster Chicken $®$, Broaster Foods $\circledR^{\circledR}$. and Broasterie ${ }^{\circledR}$ are registered trademarks. Usage is available only to licensed operators with written authorization from the Broaster Company.

The Broaster Company

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

## $\triangle$ WARNING

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:

## A DANGER

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 2400GH, also slide switch on gas valve OFF. DO NOT attempt to operate unit during a power failure.

2400GH: 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.

## AWARNING

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.

## AWARNING

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.

## AWARNING

If at any time the POWER ON light does not turn off when the cook/filter switch is moved to the OFF position, contact your local Broaster Company representative for service immediately.

## AWARNING

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.

## AWARNING

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

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## 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 for a period of one year from the date of installation (two years on Solid State controllers and ten years on the Welded Stainless Steel Cooking Well ), if installation is made 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. 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 from date of installation of new equipment only. Transportation charges, trip charges, zone fees, or other expenses in connection with warranty service are the obligation of the owner unless otherwise specified in the original sales contract between the purchaser and the authorized Company distributor from which the equipment is purchased. Please refer to that contract for coverage as to those charges.

This warranty shall be void unless genuine Broaster ${ }^{\circledR}$ parts \& filter paper, Bro-Clean ${ }^{\text {TM }}$ filtering compound or XL 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 - OWNER'S RESPONSIBILITY

It is the owner's responsibility to:

- Ensure the Broaster ${ }^{\circledR}$ Pressure Fryer is properly maintained.
- Ensure 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 ${ }^{\circledR}$ Pressure Fryer.
- Retain this manual for future reference.
- Ensure main power supply is disconnected before the unit is serviced.
- When you sell, trade, dispose of or give away your Broaster ${ }^{\circledR}$ 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.
- 2400GH:Keep burner area free and clear of all combustible materials.
- 2400GH: 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 ${ }^{\circledR}$ Pressure Fryer so records may be updated.

If you are a new owner of a used unit or have relocated your Broaster Pressure Fryer, please take a minute to notify us by completing the Pre-Owned Equipment Registration page on our website. It is NOT a warranty registration.
broaster.com/preowned-registration.htm
This information enables the Broaster Company to better serve you and keep you informed of changes in equipment, condiments, or service bulletins.

## 3 - INSTALLATION INSPECTION

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

## $\triangle$ CAUTION

Follow cleaning instructions as outlined in this manual before operating for the first time. See "Cleaning" on page 9-1.

- 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 on page 4-3. DO NOT install unit where traffic areas are on either side or behind unit.


## 2400GH:

## $\triangle$ WARNING

Electrical Grounding Instructions - The Model 2400GH is equipped with a three-prong (grounding) plug to protect against shock hazard. The plug must be plugged directly into a properly grounded threeprong receptacle. DO NOT cut or remove the grounding prong from this plug.

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


## Gas Conversion

USA and Canada

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


## European Union

- Units manufactured for use in the European Union are not convertible from one type of gas to another.


## 4 - GETTING TO KNOW YOUR BROASTER ${ }^{\circledR}$ PRESSURE FRYER



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. 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.

## AWARNING

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.

## $\triangle$ CAUTION

## HOT Surfaces!

## AWARNING

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. Countertop Drip Pan: Collects condensate from the open cooking well and directs it to the Drip Pan Drain Line. Drip Pan is removable for cleaning.
8. Drip Pan Drain Line: Directs countertop liquid toward Condensate Pan.
9. Pilot Burner: A small flame used to ignite the main burner.
10. 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 crosswise to the pipe stops gas flow.
11. Gas Valve: Regulates gas supply. The valve has a two-position switch: OFF stops all gas flow and ON allows gas flow to pilot and main burner as needed.

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

## A 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.
13. Drain Valve Handle: Opens and closes drain valve. When handle is horizontal, valve is closed. When vertical, valve is open.

14. Cover O-Ring: Forms a seal when cover is lowered into the cooking well.
15. 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 the unit until valve is replaced by an authorized Broaster Company representative.

## $\triangle$ WARNING

Keep away from safety relief valve opening unless wearing heat and steam protective apparel. Escaping steam could cause serious burns.

Test valve once a month. Also test before and after an extended shutdown. Using a hot mitt, lift valve handle during a cook cycle until pressure is released from cooking well. Allow valve to snap closed.
16. Pressure Gauge: Indicates pressure within the cooking well. Normal operating pressure is 12-14 PSI.

17. Basket Lifter: Used to raise and lower food basket into the cooking well.
18. Food Basket: Holds product for cooking. Indicates proper level of oil at operating temperature.
19. Basket Support Grate: Used in the bottom of the cooking well to support the basket w/o feet at the proper height. (Model 2400GH only)

> AWARNING
> Basket, lifting handle and basket support grate are hot, use gloves when handling. Hot surfaces could cause serious burns.

20. Pressure Port: When cover is CLOSED while cooking, all steam passes through this port into the pressure regulating valve.
21. Capillary Guard: Protects temperature sensor probe, hi-limit bulb and capillary from damage. Includes hot and cold oil level indicator.

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

22. Exhaust Tank: Steam and vapors are exhausted through this tank.
23. Filter Pump and Motor: When filtering, returns oil to cooking well.
24. Basket Rest: Holds and tilts basket for draining when removing cooked product from oil or loading uncooked product.

## ACAUTION

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 PREPARATIONS

## O-RING LUBRICATION

Lubricate filter pan riser line O-ring and cover O-ring with cooking oil (see COVER steps 1 through 3, page 9-2.

## 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.
- When cover has been placed in its raised position, it should remain raised until it is deliberately lowered. If the cover will not remain raised, 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.

Danger of fire exists if the oil level is below the minimum level.

Using old oil reduces

flash-point, increasing the risk of surge boiling.

Use care when handling

## $\triangle$ WARNING

 hot oil. Oil could splash. causing serious burns.Fill cooking well using one of the following methods:

## Liquid Oil

Use Broaster ${ }^{\circledR}$ liquid oils or a high quality liquid oil manufactured for deep frying.

## Solid Shortening

(Any cooking medium that is solid at room temperature)

## AWARNING

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

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 2400E and sides and bottom of cooking well on the 2400GH. 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, scorch or burn shortening, reducing its useful life.

## OIL LEVEL

Close drain valve. Fill cooking well with oil to COLD OIL LEVEL. Oil will expand when heated.

## $\triangle$ WARNING <br> Be sure hot oil is at HOT OIL LEVEL. Be sure top heating element is covered before turning cook/filter switch to COOK.



## 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 ${ }^{\circledR}$ Company monosodium glutamate-free condiments are available. They have all been tested for the best possible results in the unit. If using Genuine Broaster ${ }^{\circledR}$ breading and marinades, you can obtain a Trademark Authorization allowing the use of the Broaster Company trademarks in your advertising and menus.

## 2400GH 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 2400GH has an intermittent pilot burner.
This type of pilot lights when the controller calls for heat and goes out when the controller is not 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.


* This switch is not used on gas pressure fryers manufactured for use in the European Union.


## 6 - CONTROL PANEL



## DUAL DISPLAY FAMILIARIZATION

1. Cook/Filter Switch: Has three positions: COOK, OFF and FILTER.
2. Power On Indicator Light: Illuminates when cook/filter switch is in COOK position.
3. Hi-Limit Control: Prevents oil temperature from exceeding $475^{\circ} \mathrm{F}$. Turn unit OFF and DO NOT attempt to operate unit until it has been serviced by an authorized Broaster Company representative.

## NOTICE

This control may trip during shipment. If it does, fully depress red reset button. If control "clicks" it was tripped. If not, it is correctly reset.
4. Heat On Indicator Light: Illuminates when oil is being heated.
5. Valve Closed Indicator Light: Illuminates when pressure regulating valve is CLOSED.
6. Time Display: Shows time countdown during a cook cycle, program values during programming, and programmed time during idle period.
7. Temp Display: Shows set temperature and actual temperature on demand.
8. Cook Temperature Button: Initiates temperature programming and displays actual temperature.
9. Cook Time Button: Initiates time programming.
10. Numerical Keypad: Enters and adjusts set point values.
11. AUTO COMP (Automatic Time Compensation) Set Button and Light: Indicates timing method. When OFF, controller operates as a regular timer. When ON, controller monitors oil temperature and adjusts time to compensate for fluctuations in the oil temperature.
12. Cycle Count Display: Increases in increments of one every time a cooking cycle is completed.
13. Cycle Count Reset Button: Resets the Cycle Count Display to zero.

CONTROLLER BASIC PROGRAMMING
Normal Operating Mode

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

Action: Turn cook/filter switch to COOK.

Response: Temp Display alternates between number values for cook temperature, and LO (idle mode). LO disappears when oil temperature reaches cook temperature value. Time Display shows the set time in minutes and seconds.

## Set Temperature

Action: Press Cook Temperature Button twice within 5 seconds.

Response: Programming mode has been entered. Flashing Temp Display reads "\#\#\#F" (where \#\#\# = temperature value, such as $360^{\circ} \mathrm{F}$ ).

Action: If desired, press keypad numbers to change displayed value. Press Cook Temperature Button once to enter new value into memory.

Response: Controller returns to idle mode.

## Set Time

Action: Press Cook Time Button twice within 5 seconds.

Response: Programming mode has been entered. Flashing Time Display reads "\#\#:\#\#." (\#\#:\#\# = time value in minutes:seconds, such as 08:00).

Action: If desired, press keypad numbers to change displayed value in minutes and seconds. Press Cook Time Button once to enter new value into memory.

Response: Controller returns to idle mode.

## Set AUTO COMP (Automatic Time Compensation) <br> Action: Press and hold AUTO COMP Button for 3 seconds.

Response: Green light will toggle on or off.

## Reset Cycle Counter

Action: Press Reset Button twice in 5 seconds.

Response: Display returns to a setting of "00."

## NOTICE <br> If counter is not reset before reaching " 99 ,"

 upon the next cycle completion, the display will begin counting at "01."Normal operating programming can be done at any time without affecting presets.

## Preset Cook Mode

Choose Preset Cook Cycle:
Action: Press a button, 0 thru 9, corresponding to the desired preset.

Response: The TIME display shows "P__X", where $X$ is the preset selected.

## NOTICE

If a button is not pressed in 10 seconds, the display reverts to the previous display.

Action: Press the same button again,
Response: The TIME display shows the preset time, the AUTO COMP LED turns on if enabled, the TEMP display shows the preset setpoint, and the temperature will regulate to the new setpoint.

## PROGRAMMING PROCEDURE (PRESET MODE)

Action: Press and hold the TIME and TEMP buttons simultaneously for 3 seconds.

Response: The TIME display and TEMP display begin flashing. The CYCLE COUNT display show "-0" indicating that the preset \#0 values are displayed. The preset values for the TIME, TEMP, and AUTO COMP will be shown on the display.

## Change Cook Time:

Action: Press the TIME button once.

Response: The TEMP display turns off and the TIME display flashes.

Action: Enter the desired cook time and press the TIME button to save the new setting.

## NOTICE

If a button is not pressed in 10 seconds, the display reverts back to both the TIME and TEMP displays flashing.

## Change Cook Temperature

 Action: Press the TEMP button once.Response: The TIME display turns off and the TEMP display flashes.

Action: Enter the desired temperature setting and press the TEMP button to save the new setting.

## NOTICE

If a button is not pressed in 10 seconds, the display reverts back to both the TIME and TEMP displays flashing.

## Activate/Deactivate Auto Comp

 Action: Press and hold the AUTO COMP button for 3 seconds.Response: AUTO COMP is enabled when the AUTO COMP LED is on and disabled when it is off.

## Advance to Next Preset

Action: Press the RESET button once.

Response: The CYCLE COUNT display changes to " -1 " and the presets for \#1 are displayed.

Repeat the process as described. After the presets for \#9 are displayed, pressing the RESET button again causes the control to return to normal operation.

## 7 - COOKING WEIGHT, TEMPERATURE AND TIME

## FRESH PRODUCTS

## ALWAYS COOK BROASTER FOODS <br> UNTIL THE INTERNAL TEMPERATURE REACHES THE FOLLOWING MINIMUMS:

Chicken, White: $170^{\circ} \mathrm{F}$;
Chicken, Dark: $180^{\circ} \mathrm{F}$;
Corn Dogs/Pork: 160 to170 F; Fish: $155^{\circ}$ 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 AutoComp is ON.

## NOTICE

Increase cook time when cooking frozen or oversized product.

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

## MAXIMUM LOAD

Fresh bone-in chicken: $9.6 \mathrm{~kg}(21 \mathrm{lb})$

## AWARNING

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 | $0.90-1.02 \mathrm{~kg}(2.00-2.25 \mathrm{lb})$ $1.02-1.13 \mathrm{~kg}(2.25-2.50 \mathrm{lb})$ $1.13-1.25 \mathrm{~kg}(2.50-2.75 \mathrm{lb}$. $1.25-1.36 \mathrm{~kg}(2.75-3.00 \mathrm{lb})$ $1.36-1.47 \mathrm{~kg}(3.00-3.25 \mathrm{lb})$ $1.47-1.59 \mathrm{~kg}(3.25-3.50 \mathrm{lb})$ | $\begin{aligned} & 182^{\circ} \mathrm{C}\left(360^{\circ} \mathrm{F}\right) \\ & 182^{\circ} \mathrm{C}\left(360^{\circ} \mathrm{F}\right) \\ & 182^{\circ} \mathrm{C}\left(360^{\circ} \mathrm{F}\right) \\ & 182^{\circ} \mathrm{C}\left(360^{\circ} \mathrm{F}\right) \\ & 182^{\circ} \mathrm{C}\left(360^{\circ} \mathrm{F}\right) \\ & 182^{\circ} \mathrm{C}\left(360^{\circ} \mathrm{F}\right) \end{aligned}$ | 7:15-7:45 minutes 7:45-8:15 minutes 8:15-9:00 minutes 9:00-9:30 minutes 9:30-10:00 minutes 10:00-10:30 minutes |
| Whole Chicken | $1.02-1.13 \mathrm{~kg}$ (2.25-2.50 lb) | $182^{\circ} \mathrm{C}\left(360^{\circ} \mathrm{F}\right)$ | 12:00-13:00 minutes |
| Potatoes | Quartered | $182^{\circ} \mathrm{C}\left(360^{\circ} \mathrm{F}\right)$ | 7:00-8:00 minutes |
| Pork Ribs | $0.90 \mathrm{kgs}(2.00 \mathrm{lb})$ and under | $182^{\circ} \mathrm{C}\left(360^{\circ} \mathrm{F}\right)$ | 6:00-7:00 minutes |
| Pork Chops | 19.05 mm (3/4 inch) thick | $182^{\circ} \mathrm{C}\left(360^{\circ} \mathrm{F}\right)$ | 5:00 minutes |
| Liver | 6.35 mm (1/4 inch) thick | $182^{\circ} \mathrm{C}\left(360^{\circ} \mathrm{F}\right)$ | $11 / 2$ minutes |
| Fish | 0.09 kg (3 oz) Filets | $182^{\circ} \mathrm{C}\left(360^{\circ} \mathrm{F}\right)$ | 3:00-4:00 minutes |
| Onion Rings | $\begin{aligned} & 9.53-12.70 \mathrm{~mm}(3 / 8-1 / 2 \text { inch }) \\ & \text { thick } \end{aligned}$ | $182^{\circ} \mathrm{C}\left(360^{\circ} \mathrm{F}\right)$ | 2:00-3:00 minutes |

## INDIVIDUALLY QUICK FROZEN

 (IQF) CHICKEN, FROZEN
## ALWAYS COOK ALL BROASTER FOODS <br> UNTIL THE INTERNAL TEMPERATURE REACHES THE FOLLOWING MINIMUMS:

Keep uncooked product frozen at $0^{\circ} \mathrm{F}$ or below at all times.

Maximum Load Size:
6 chickens (48 pieces)

Chicken, White: $170^{\circ}$ F;
Chicken, Dark: $180^{\circ}$ F;
Corn Dogs/Pork: 160 to170 F;
Fish: $155^{\circ}$ F

| PRODUCT | MAXIMUM <br> LOAD | TEMPERATURE | TIME |
| :--- | :--- | :--- | :---: |
| Thighs | 30 pieces | $168^{\circ} \mathrm{C}\left(335^{\circ} \mathrm{F}\right)$ | $15: 00-17: 00 \mathrm{~min}$. |
| Legs | 48 pieces | $168^{\circ} \mathrm{C}\left(335^{\circ} \mathrm{F}\right)$ | $15: 00-17: 00 \mathrm{~min}$. |
| Breasts | 24 pieces | $168^{\circ} \mathrm{C}\left(335^{\circ} \mathrm{F}\right)$ | $17: 00-19: 00 \mathrm{~min}$. |
| Wings | 60 pieces | $168^{\circ} \mathrm{C}\left(335^{\circ} \mathrm{F}\right)$ | $12: 00-14: 00 \mathrm{~min}$. |
| Mixed Load | 48 pieces | $168^{\circ} \mathrm{C}\left(335^{\circ} \mathrm{F}\right)$ | $17: 00-19: 00 \mathrm{~min}$. |

## BROASTER FOODS COOKING CHART FOR 2400 PRESSURE FRYER

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 | $\begin{aligned} & \text { Approx. Load - Kgs (Lbs.) } \\ & \text { MIN MAX } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Jumbo Popcorn Chicken | 2/5\# bags | 96262 | 10 | 4-4.5 Min. | $182^{\circ} \mathrm{C}\left(360^{\circ} \mathrm{F}\right)$ | . 91 kg (2 lb.) | 5.44 kg (12 lbs) |
| Cajun Jumbo Popcorn Chicken | 2/5\# bags | 96277 | 10 | 4-4.5 Min. | $182^{\circ} \mathrm{C}\left(360^{\circ} \mathrm{F}\right)$ | . 91 kg (2 lb.) | $5.44 \mathrm{~kg}(12 \mathrm{lbs})$ |
| Chicken Tenders | 2/5\# bags | 96641 | 10 | 5-6 Min. | $182^{\circ} \mathrm{C}\left(360^{\circ} \mathrm{F}\right)$ | . 91 kg (2 lb.) | 5.44 kg (12 lbs) |
| Zesty Home Style Chicken Tenders | 2/5\# bags | 96349 | 10 | 5-6 Min. | $182^{\circ} \mathrm{C}\left(360^{\circ} \mathrm{F}\right)$ | . 91 kg (2 lb.) | 5.44 kg (12 lbs) |
| Chicken Fillets | 2/5\# bags | 96638 | 10 | 6-7 Min. | $182^{\circ} \mathrm{C}\left(360^{\circ} \mathrm{F}\right)$ | . 91 kg (2 lb.) | 5.44 kg (12 lbs) |
| Traditional Wings | 2/5\# bags | 96261 | 10 | 8-10 Min. | $182^{\circ} \mathrm{C}\left(360^{\circ} \mathrm{F}\right)$ | . 91 kg (2 lb.) | $5.44 \mathrm{~kg}(12 \mathrm{lbs})$ |
| Hot 'N Spicy Wings | 4/5\# bags | 96639 | 20 | 8-10 Min. | $182^{\circ} \mathrm{C}\left(360^{\circ} \mathrm{F}\right)$ | . 91 kg (2 lb.) | 5.44 kg (12 lbs) |
| Boneless Buffalo Wings | 2/5\# bags | 96318 | 10 | 5-6 Min. | $182^{\circ} \mathrm{C}\left(360^{\circ} \mathrm{F}\right)$ | . 91 kg (2 lb.) | 5.44 kg (12 lbs) |
| Fully-Cooked Oven Roasted Chicken Wings | 2/5\# bags | 96351 | 10 | 6-7 Min. | $182^{\circ} \mathrm{C}\left(360^{\circ} \mathrm{F}\right)$ | . 91 kg (2 lb.) | 5.44 kg (12 lbs) |
| Chicken Gizzards | Bulk Packed | 96271 | 10 | 4-6 Min. | $182^{\circ} \mathrm{C}\left(360^{\circ} \mathrm{F}\right)$ | . 91 kg (2 lb.) | 5.44 kg (12 lbs) |
| Jumbo Corn Dogs | Bulk Packed | 96661 | 10 | Thawed 6-7 Min. | $182^{\circ} \mathrm{C}\left(360^{\circ} \mathrm{F}\right)$ | . 91 kg (2 lb.) | 5.44 kg (12 lbs) |
| Jumbo Corn Dogs | Bulk Packed | 96661 | 10 | Thawed 7-8 Min. | $168{ }^{\circ} \mathrm{C}\left(335{ }^{\circ} \mathrm{F}\right)$ | . 91 kg (2 lb.) | 5.44 kg (12 lbs) |
| Jumbo Corn Dogs | Bulk Packed | 96661 | 10 | Frozen 13-14 Min. | $168^{\circ} \mathrm{C}\left(335{ }^{\circ} \mathrm{F}\right)$ | . 91 kg (2 lb.) | 5.44 kg (12 lbs) |
| Pork Tenderloin | Bulk Packed | 96313 | 9.75 | 3-3.5 Min. | $182^{\circ} \mathrm{C}\left(360^{\circ} \mathrm{F}\right)$ | . 91 kg (2 lb.) | 1.81 kg (4 lbs) |
| Deluxe Pizza Burritos | 48 in 7 trays | 96316 | 15 | 6.5-7.5 Min. | $182^{\circ} \mathrm{C}\left(360^{\circ} \mathrm{F}\right)$ | . 91 kg (2 lb.) | 1.81 kg (4 lbs) |
| Deluxe Beef ' n Bean Burritos | 48 in 7 trays | 96317 | 15 | 5.5-6.5 Min. | $182^{\circ} \mathrm{C}\left(360^{\circ} \mathrm{F}\right)$ | . 91 kg (2 lb.) | 1.81 kg (4 lbs) |
| Deluxe Breakfast Burritos | 48 in 7 trays | 96323 | 15 | 6.5-7.5 Min | $182^{\circ} \mathrm{C}\left(360^{\circ} \mathrm{F}\right)$ | . 91 kg (2 lb.) | 1.81 kg (4 lbs) |
| Catfish Tender Strips | Bulk Packed | 96340 | 10 | 3.5-4 Min | $182^{\circ} \mathrm{C}\left(360^{\circ} \mathrm{F}\right)$ | . 91 kg (2 lb.) | 5.44 kg (12 lbs) |
| Hand-Breaded Style Catfish Fillets | Bulk Packed | 96354 | 10 | 4-5 Min | $182^{\circ} \mathrm{C}\left(360^{\circ} \mathrm{F}\right)$ | . 91 kg (2 lb.) | 5.44 kg (12 lbs) |
| Premium Cod Fillets (2 oz. Natural Cut) | 2/5\# bags | 96329 | 10 | 4-5 Min. | $182^{\circ} \mathrm{C}\left(360^{\circ} \mathrm{F}\right)$ | . 91 kg (2 lb.) | 5.44 kg (12 lbs) |
| Premium Cod Fillets (4 oz. Natural Cut) | 2/5\# bags | 96295 | 10 | 5-6 Min. | $182^{\circ} \mathrm{C}\left(360^{\circ} \mathrm{F}\right)$ | . 91 kg (2 lb.) | $5.44 \mathrm{~kg}(12 \mathrm{lbs})$ |
| Premium Beer-Battered Recipe Shrimp (tail-off) | Bulk Packed | 96286 | 8 | 2.5-3 Min. | $182^{\circ} \mathrm{C}\left(360^{\circ} \mathrm{F}\right)$ | . 91 kg (2 lb.) | 4.54 kg (10 lbs) |
| Potato Wedges | 6/5\# bags | 96698 | 30 | 4-4.5 Min. | $182^{\circ} \mathrm{C}\left(360^{\circ} \mathrm{F}\right)$ | . 91 kg (2 lb.) | $4.54 \mathrm{~kg}(10 \mathrm{lbs})$ |
| Potato Slices | 6/5\# bags | 96258 | 30 | 3-3.5 Min. | $182^{\circ} \mathrm{C}\left(360^{\circ} \mathrm{F}\right)$ | . 91 kg (2 lb.) | 4.54 kg (10 lbs) |
| Italian-Style 3-Cheese Mozzarella Sticks | 4/3\# bags | 96279 | 12 | $11 / 4-11 / 2$ Min. | $182^{\circ} \mathrm{C}\left(360^{\circ} \mathrm{F}\right)$ | . 91 kg (2 lb.) | $4.54 \mathrm{~kg}(10 \mathrm{lbs})$ |
| Beer Battered Onion Rings | 20/8 oz. bags | 96287 | 10 | 11/4-11/2 Min. | $182^{\circ} \mathrm{C}\left(360^{\circ} \mathrm{F}\right)$ | . 91 kg (2 lb.) | 4.54 kg (10 lbs) |
| Natural Cheddar Nuggets | Bulk Packed | 96324 | 7 | $11 / 4-11 / 2$ Min. | $182^{\circ} \mathrm{C}\left(360^{\circ} \mathrm{F}\right)$ | . 91 kg (2 lb.) | $4.54 \mathrm{~kg}(10 \mathrm{lbs})$ |
| Jalapeno Peppers | 4/3\# bags | 96325 | 12 | $13 / 4-21 / 4 \mathrm{Min}$. | $182^{\circ} \mathrm{C}\left(360^{\circ} \mathrm{F}\right)$ | . 91 kg (2 lb.) | $4.54 \mathrm{~kg}(10 \mathrm{lbs})$ |

ALWAYS COOK ALL BROASTER FOODS UNTIL THE INTERNAL TEMPERATURE REACHES THE FOLLOWING MINIMUMS: Chicken, White - $170^{\circ}$ F; Chicken, Dark - $180^{\circ} \mathrm{F}$; Corn Dogs/Pork - $160^{\circ} \mathrm{F}$ to $170^{\circ} \mathrm{F}$; Fish $-155^{\circ} \mathrm{F}$

## 8 - COOKING OIL CARE AND FILTERING

## OIL CARE

## IMPORTANT

- Store cooking oil at room temperature: $65^{\circ}-75^{\circ} \mathrm{F}$.
- Do not reuse the oil container.
- Keep oil away from heat and flames.
- Do not store oil near oxidizing agents.


## A DANGER

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 affect product appearance and shorten the useful oil life.

## Amount of Care and Filtering Oil

Receives: DO NOT leave any crumb buildup 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 ${ }^{\circledR}$ filter paper and Broaster ${ }^{\circledR}$ filtering compounds 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 95 lb of product, between rush periods and always at the end of each day. Filter oil at $360^{\circ} \mathrm{F}$.

## $\triangle$ WARNING <br> DO NOT use filter pan to transport hot oil. Hot oil could splash, causing serious burns.



Be sure filter components are assembled correctly. The correct order is (1) Filter Screen on bottom of filter pan, (2) Filter Paper, (3) Filter Hold Down, three cups of Bro-Clean filtering media on top of filter paper, and/or 15 oz . 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. Ensure O-ring is installed on (5) Riser Line and is aligned with suction line. Turn cook/ filter switch OFF and OPEN cooking well cover.
2. Using a ramrod, stir oil in a circular motion. This will aid in draining crumbs. Lower cover, pull over cooking well and open drain valve slowly. If valve becomes obstructed with crumbs, use ramrod to unblock valve.

> पCAUTION 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, remove basket support grate, if present, and clean separately. Lower cover assembly and pull cover over cooking well completely but DO NOT CLOSE. Turn cook/filter switch to FILTER. When oil is flowing out of drain, close drain valve and pump approximately 8 inches of oil into cooking well.
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 2400E, clean inside and between heating elements. Use element brush to clean between cooking well and heating elements. Be sure crumbs do not cover temperature sensor. See the following figure for 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. Turn cook/filter switch to FILTER. After 5 minutes, push cover back and raise cover assembly. Close drain valve.

2400GH: Turn off cook/filter switch and replace basket support grate in bottom of cooking well.
6. Turn cook/filter switch to FILTER. When air bubbles appear turn cook/filter switch OFF.

## AWARNING

Be sure hot oil is at HOT OIL LEVEL.
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, filter pan interior and top \& bottom of filter pan cover. Never use soap and water.

## AWARNING

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.

## AWARNING

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, turn cook/filter switch to FILTER. Let motor run for five minutes with drain valve open. This may extend useful oil life.

## NOTICE

Ensure cook/filter switch is OFF to avoid splashing of oil if motor protector reset button is used.

## 9 - CLEANING

## A DANGER

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.

## $\triangle$ CAUTION

Broaster ${ }^{\circledR}$ cooking well cleaner is an irritant. DO
NOT take internally. Prolonged skin contact may cause irritation and dryness. Direct eye contact may cause irritation, redness and temporary blurred vision. Ingestion may cause nausea, diarrhea, mucosal and gastric irritation. See first aid instructions on container.

## AWARNING

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

## NOTICE <br> Cover and Splash Shield cleaning should be completed before cooking well is cleaned.

1. Turn cook/filter switch OFF and disconnect main power supply.
2. Remove filter pan (if unit has one) from under unit.
3. Drain and discard used oil.
4. OPEN cover and install cleaning flag \#12814 over latch column. Remove basket support grate and clean separately if present.

## NOTICE Quarterly cleaning of

 Probe Guard (gas and electric) should be done at this point. See "PROBE GUARD \& BASKET GUIDES" on page 9-4.5. Close drain valve. Fill cooking well with 14.0 gallons of warm tap water. Thoroughly dissolve 14 oz . of Broaster ${ }^{\circledR}$ 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. Replace cleaned basket support grate in bottom of cooking well.
12. Connect main power supply. Turn cook/filter switch to FILTER for 5 seconds to clear filter lines. Drain and discard mixture.
13. 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.

## AWARNING

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.

[^0]
## SLIDE RODS

Clean daily along with the cover. See "COVER" on page 9-2. 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 until it stops.
2. Raise the cover assembly.
3. Rotate cover handle to CLOSED position. 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

## A WARNING <br> Allow cover assembly to cool before cleaning. Hot surfaces could cause serious burns.

Clean the two-piece splash guard according to the following instructions:

1. OPEN cover and slide back.
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 toward the end of the cover handle (1).
5. Clean the top and underside of splash shield and top of the cover.

## NOTICE

Ensure 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.

## GAS SPRING COVERS

$\triangle$ WARNING
Allow cover assembly to cool before cleaning. Hot surfaces could cause serious burns.


Clean the gas spring cover as follows:

1. Lower the cooking well cover and slide forward until it stops.
2. Loosen thumb screws (1) attaching gas spring cover (2) to yoke assembly (3).
3. Raise the cover off the yoke assembly.
4. Clean the top and underside of the gas spring cover and the yoke assembly.
5. Wipe gas springs with clean cloth or paper towel.
6. Assemble in reverse order.

## PROBE GUARD \& BASKET GUIDES

At least once every 3 months, while cleaning the cooking well, the probe guard and basket guides must 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, or a $7 / 16$ " wrench for the Model 2400E. 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.


ACAUTION
Using too much force in this area may damage 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) threadlock on screw threads.


#### Abstract

ACAUTION 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

$\triangle$ CAUTION Never clean the fryer with a water jet type cleaning machine.

|  | DAILY | WEEKLY | QUARTERLY |
| :--- | :---: | :---: | :---: |
| Clean Cooking Well |  | X |  |
| Clean Condensate Pan | X |  |  |
| Clean O-Ring |  | X |  |
| Clean Pressure Relief Valve <br> port \& Pressure Gauge Port |  | X |  |
| Clean Cover and Splash <br> Guard |  | X |  |
| Clean Food Basket | After each filter- |  |  |
| ing cycle |  |  |  |
| Clean Temperature Sensor | See FILTERING |  |  |
| Clean Filter Pan Cover |  | $\mathbf{X}$ |  |
| Filter Cooking Oil |  | $\mathbf{X}$ |  |
| Clean and Lubricate O-Ring |  |  |  |
| Slide Rods |  |  |  |
| Gas Spring Cover |  |  |  |
| Clean Temperature Sensor |  |  |  |
| Probe Guard \& Basket |  |  |  |
| Guides |  |  |  |

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

## NIGHTLY

## AWARNING

If at any time the POWER ON light does not turn off when the cook/filter switch is moved to the OFF position, contact your local Broaster Company representative for service immediately.


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.

1. Turn cook/filter switch OFF.
2. Filter cooking oil. See "FILTERING" on page 8-2.
3. 2400GH: 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

## AWARNING

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.

1. See "Cooking Oil Care and Filtering" on page 8-1. Discard cooking oil.
2. See "Cleaning" on page 9-1.
3. Turn main circuit breaker OFF and unplug electrical cord.
4. 2400GH: 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

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

## ELECTRICAL TIPS

| COMPLAINT | CAUSE | REMEDY |
| :---: | :---: | :---: |
| POWER ON light not illuminated | 1. Main power OFF | 1. Turn ON. |
|  | 2. Cook/filter switch OFF | 2. Turn to COOK. |
|  | 3. Hi-limit tripped | 3. Turn cook/filter switch OFF. Contact service person. |
|  | 4. Unplugged | 4. Plug in. |
| Timer will not time | 1. Main power OFF | 1. Turn ON. |
|  | 2. Cook/filter switch OFF | 2. Turn to COOK. |
|  | 3. Solid state controller in program mode | 3. Exit program mode. |
|  | 4. Pressure regulating valve OPEN | 4. CLOSE. |
| HEAT ON light not illuminated | 1. Main power OFF | 1. Turn ON. |
|  | 2. Cook/filter switch OFF | 2. Turn to COOK. |
|  | 3. Solid state controller in program mode | 3. Exit program mode. |
|  | 4. Oil temperature has reached programmed temperature | 4. Unit ready for cooking. |


| COMPLAINT | CAUSE | REMEDY |
| :---: | :---: | :---: |
| Display reads FAIL | 1. There is a controller failure. | 1. Turn cook/filter switch OFF. Contact service person. |
| Display reads HI | 1. Oil temperature too high. | 1. Turn cook/filter switch OFF. Contact service person. |
| Display reads PROB | 1. There is a temperature sensor probe failure. | 1. Turn cook/filter switch OFF. Contact service person. |
| Display reads CHEC | 1. Gas valve not ON (2400GH) <br> 2. Pilot light will not light (2400GH) | 1. Turn ON. <br> 2. Turn ON manual gas shut off valve. |
|  | 3. Open or faulty wall fuse | 3. Check wall fuse or circuit breaker. |
|  | 4. Oil temperature not rising properly | 4. Turn cook/filter switch OFF. Contact service person. |

## GAS TIPS

| COMPLAINT | CAUSE | REMEDY |
| :---: | :---: | :---: |
| Pilot burner will not ignite | 1. Gas valve OFF <br> 2. Air in pilot gas line | 1. Slide switch to ON. <br> 2. See "2400GH LIGHTING INSTRUCTIONS" on page 53. |
|  | 3. Gas shut-off valve OFF | 3. Turn ON. |
|  | 4. Incoming gas pressure too high | 4. Install regulator to control gas pressure. |
| Main burner will not ignite | 1. Pilot burner not lit | 1. See "2400GH LIGHTING INSTRUCTIONS" on page 53. |
|  | 2. Gas control OFF | 2. Turn ON. |
|  | 3. Controller in program mode | 3. Exit program mode. |
|  | 4. Cook/filter switch OFF | 4. Turn to COOK. |
|  | 5. Hi-limit tripped | 5. Turn cook/filter switch OFF. Contact service person. |


| COMPLAINT | CAUSE | REMEDY |
| :---: | :---: | :---: |
| Cover hard to CLOSE | 1. O-ring dry or dirty <br> 2. O-ring groove dirty <br> 3. Hard O-ring | 1. Clean and lubricate. <br> 2. Clean. <br> 3. Replace. |
| Cover will not OPEN <br> $\triangle$ WARNING <br> Never use force to OPEN cover. | 1. O-ring dry or dirty <br> 2. O-ring groove dirty <br> 3. Hard O-ring <br> 4. Pressure not released <br> 5. Pressure regulating valve out of adjustment | 1. Clean and lubricate. <br> 2. Clean. <br> 3. Replace. <br> 4. OPEN pressure regulating valve. <br> 5. Contact service person. |
| O-ring Break <br> $\triangle$ CAUTION <br> DO NOT rest basket on top flange of cooking well. Damage to area in contact with O-ring can cause leaking under pressure or Oring failure. | 1. O-ring groove dirty <br> 2. Nicks in cooking well or cover | 1. Clean. <br> 2. Remove. |
| Cover will not stay in raised position | 1. Weak gas spring | 1. Contact service person. |
| Pressure Gauge does not indicate rising pressure when exhaust valve is closed. | 1. Port is plugged <br> 2. Pressure gauge is damaged | 1. Clean port on bottom of cover. <br> 2. Replace pressure gauge. |

## PRESSURE SYSTEM TIPS

$!$ DANGER
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 | 1. | Pressure regulating valve <br> OPEN | 1. | CLOSE. |
|  | 2. | Pressure regulating valve <br> dirty or blocked open | 2. | Contact service person. |
|  | 3. | Leaks around cover <br> O-ring | 3. | Replace O-ring. |
| Excess pressure |  | $1 . \quad$Turn cook/filter switch OFF. <br> Contact service person. |  |  |

PRODUCT TIPS
Fresh Chicken

| COMPLAINT | CAUSE | REMEDY |
| :---: | :---: | :---: |
| Product too light | 1. Low oil temperature <br> 2. No coating <br> 3. Not done <br> 4. Food basket overloaded | 1. Check cook temperature. <br> 2. Check procedures. <br> 3. Increase cook time. <br> 4. Decrease load. |
| Product too dark | 1. High oil temperature <br> 2. Wrong coating <br> 3. Breaded too long <br> 4. Old oil <br> 5. Breaded too wet | 1. Check cook temperature. <br> 2. Check procedures. <br> 3. Discard. <br> 4. Change oil. <br> 5. Drain thoroughly prior to breading. |
| Product not done | 1. Low oil temperature <br> 2. Food basket overloaded <br> 3. Cook time too short | 1. Check cook temperature. <br> 2. Decrease load. <br> 3. Increase cook time. |
| No flavor | 1. Improper marination | 1. Check procedures. |
| White spots | 1. Product stuck together <br> 2. Food basket overloaded | 1. Float basket while loading <br> 2. Decrease load size. |
| Dark spots | 1. Dirty oil | 1. Filter or replace oil. |

Individually Quick Frozen (IQF) Chicken

| COMPLAINT | CAUSE | REMEDY |
| :---: | :---: | :---: |
| Product too light | 1. Low oil temperature <br> 2. Not done <br> 3. Food basket overloaded | 1. Check cook temperature. <br> 2. Increase cook time. <br> 3. Decrease load. |
| Product too dark | 1. High oil temperature <br> 2. Overcooked <br> 3. Oil old <br> 4. Thawed and refrozen | 1. Check cook temperature. <br> 2. Decrease cook time. <br> 3. Change oil. <br> 4. Keep product at $0^{\circ} \mathrm{F}$ or below. |
| Product not done | 1. Low oil temperature <br> 2. Food basket overloaded <br> 3. Cook time too short | 1. Check cook temperature. <br> 2. Decrease load. <br> 3. Increase cook time. |
| No flavor | 1. Overcooked <br> 2. Old product | 1. Check cook time. <br> 2. Discard |
| White spots | 1. Product stuck together Food basket overloaded | 1. Float basket while loading. <br> 2. Decrease load size. |
| Dark spots | 1. Dirty oil | 1. Filter or replace. |


| COMPLAINT | CAUSE |  | REMEDY |
| :---: | :---: | :---: | :---: |
| Motor will not startAWARNING $\begin{array}{l}\text { Turn cook/ } \\ \text { filter switch }\end{array}$ | 1. Overload tripped |  | Wait for overload to cool. Push red motor protector reset button located on rear of motor. |
| to OFF position to avoid splashing of oil when motor protector reset button is pushed. | 2. Cook/filter switch OFF <br> 3. Open or faulty wall fuse or circuit breaker | 3. | Turn to FILTER. <br> Check wall fuse or circuit breaker. |
| Motor hums but will not start | 1. Solidified shortening in pump <br> 2. Crumbs in pump | 1. Turn cook/filter switch OFF. Contact service person. <br> 2. Turn cook/filter switch OFF. Contact service person. |  |
|  | 1. Filter pan not completely installed <br> 2. O-ring on riser line not installed <br> 3. Solidified shortening in piping or filter pan | 1. Firmly push filter pan in. <br> 2. See FILTERING. <br> 3. Turn cook/filter switch OFF. Contact service person. |  |
| Motor starts but will not pump |  |  |  |
|  |  |  |  |
|  | 1. Filter paper or hold down improperly installed <br> 2. Not using enough Broaster ${ }^{\circledR}$ filtering compound | 1. See "Cooking Oil Care and Filtering" on page 81. <br> 2. Next filtering cycle, ensure proper amount of Broaster ${ }^{\circledR}$ filtering compound is used. |  |
| Motor starts but will not pump or stops at any level |  |  |  |
| 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 |  | See "Cooking Oil Care and Filtering" on page 81. |

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[^0]:    $\triangle$ 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.

