

SECT	TON 1. TROUBLESHOOTING
<u>1-1. INTRODUCTION</u>	This section provides troubleshooting information in the form of an easy to read table.
	If a problem occurs during the first operation of a new fryer, recheck the installation per the Installation Section of this manual.
	Before troubleshooting, always recheck the operation pro- cedures per Section 3 of this manual.
<u>1-2. SAFETY</u>	Where information is of particular importance or safety related, the words DANGER, WARNING, CAUTION, and NOTICE are used. Their usage is described below.
	SAFETY ALERT SYMBOL is used with DANGER, WARNING, or CAUTION which indicates a personal injury type hazard.
NOTICE	NOTICE is used to highlight especially important information.
CAUTION	CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.
A CAUTION	CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.
A WARNING	WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
DANGER	DANGER INDICATES AN IMMINENTLY HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, WILL RESULT IN DEATH OR SERIOUS INJURY.



1-3. TROUBLESHOOTING

To isolate a malfunction, proceed as follows:

- 1. Clearly define the problem (or symptom) and when it occurs.
- 2. Locate the problem in the Troubleshooting table.
- 3. Review all possible causes. Then, one-at-a-time work through the list of corrections until the problem is solved.
- 4. Refer to the maintenance procedures in the Maintenance Section to safely and properly make the checkout and repair needed.



If maintenance procedures are not followed correctly, injuries and/or property damage could result.



Problem	Cause	Correction
	COOKING SECTION	
Product color not correct: A. Too dark	• Temperature too high	• Check temperature setting in the program mode; see Programming Section in Operator's Manual
	• Faulty temperature probe	• Remove and replace tempera- ture probe
	• Shortening too old	Change shortening
	• Shortening too dark	Filter shorteningChange shortening
	• Breading product too far in advance	• Bread product closer to actual frying period
B. Too light	• Temperature too low	 Check temperature setting Remove and replace temperature probe
	• Fryer incorrect preheat	• Allow proper preheat time
	• Slow fryer heat-up/recovery	• Faulty element
	• Wrong cook button pushed.	• Be sure to select the correct amount of product to be cooked
C. Product	Shortening old	Replace shortening
greasy	• Temperature too low	• Check temperature setting
		• Temperature not recovered when product was dropped in frypot
	• Faulty temperature probe	• Remove and replace defective temperature probe
	• Frypot overloaded	Reduce cooking load
	• Product not removed from frypot immediately after end of cycle	• Remove product from frypot immediately after end of cycle
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Problem	Cause	Correction	
	COOKING SECTION (Continue	ed)	
D. Spotted product	• Improper separation of the product	• Load product into racks properly	
	• Breading not uniform on the product	 Sift breading regularly Separate product during breading 	
	• Burned breading particles on product	• Filter the shortening more frequently	
	• Product sticking together	• Separate product prior to pressure cooking	
E. Dryness of product	Moisture loss prior to cooking	• Use fresh products	
	• Overcooking the product	 Reduce cooking time Reduce cooking temperature 	
	• Wrong cook button pushed	• Be sure to select the correct amount of product to be cooked	
Product flavor (taste): A. Salty taste	• Breading mixture is too salty	 Sift breading after each use Incorrect breading mixture Discard old breading 	
	• Incorrect choice of breading	• Use breading designed for the desired product	
B. Burned taste	• Burned shortening favor	• Replace shortening	
	• Frypot not properly cleaned	• Drain and clean frypot	
C. Bland taste	• Raw product not fresh	• Use fresh raw product	
	• Breading mixture incorrect for product (spice content too low)	• Use breading designed for desired product	
102	• Cooking temperature too high (spice flavors lost)	• Check temperature	

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Problem	Cause	Correction
	COOKING SECTION (Continu	ied)
D. Rancid taste	Shortening too old	Replace shortening, and follow recommended care and use of shortening
	• Infrequent filtering	• Replace shortening and follow recommended care and use of shortening
	• Non-compatible products cooked within the same	 Replace shortening Use compatible products, shortening and follow recommended care and use of shortening
	• Raw product not fresh	• Use fresh product
General: A. Meat	• Incorrect meat cut procedures	• Use correct meat cutting
separation from bone	• Overcooking	• Check cooking time
	• Product not fresh	• Use fresh product
B. Bone color not proper	• Using frozen product (black bone)	• Use fresh product
	• Improper processing of product (black bone)	• Use proper processing procedure for product
	• Product not thoroughly cooked (red bone)	Check cooking timeCheck cooking temperature
C. Breading falls off	• Incorrect breading procedures	• Use correct breading procedure
	• Product partially frozen	• Thoroughly thaw the product, before breading
D. Product sticking together	• Product breaded too long prior to cooking	• Refer to breading and frying instructions
	• Improper loading procedure	Properly load product per loading procedures
	• Wrong cook button pushed	• Be sure to select the correct amount of product to be cooked



Problem	Cause	Correction
	POWER SECTION	·
With switch in POWER position, the fryer is com- pletely inoperative (NO POWER)	• Open circuit	 Check to see that unit is plugged in Check the breaker or fuse at supply box Check voltage at wall receptacle Check MAIN POWER switch; replace if defective Check cord and plug Check 15 amp fuses
	HEATING OF SHORTENING SE	CTION
Shortening will not heat	• Blown fuse or tripped	• Reset breaker or replace fuse circuit breaker at supply box or control panel
	• Blown fuse in PC board	• Replace glass fuse in board
	• Faulty POWER/PUMP switch.	• Check POWER/PUMP switch per maintenance section on the POWER/PUMP switch
	• Faulty cord and plug	Check cord and plugCheck power at receptacle
	• Faulty drain switch	• Check drain switch per maintenance section on drain switches
	• Faulty PC Board	• Remove and replace control panel
	• Faulty high limit control switch	• Check high limit control switch per maintenance section on the high limit
	• Drain valve open	Close drain valve
	• Possible faulty temperature probe	• Replace temperature probe
	• Faulty contactor	• Check contactor per maintenance section on contactors



Problem	Cause	Correction
HI	EATING OF SHORTENING SECTION	N (Continued)
Heating of shortening too slow	• Low or improper voltage	• Use a meter and check the receptacle against data plate
	• Weak or burnt out element(s)	• Check heating element(s) per Heating Elements Section
	• Points in contactor bad	Check contactor per Heating Contactors Section
	• Wire(s) loose	• Tighten
	Burnt or charred wire connection	Replace wire and clean connectors
Shortening overheating	Programming wrong	• Check temperature setting in the program mode
	• Faulty PC board	• Remove and replace control panel
	• Faulty temperature probe	• Remove and replace temperature probe
	• Check contactor for not opening	• Check faulty contactor per Heating Contactors Section



Problem	Cause	Correction
SHORTENING FOAMING/DRAINING SECTION		
Foaming or boiling over of shortening	Water in shortening	• At end of a Cook Cycle, drain shortening and clean frypot; add fresh shortening
	Condensation line stopped up	• Remove and clean condensation line
	• Improper or bad shortening	• Use recommended shortening
	• Improper filtering	• Refer to the procedure covering filtering the shortening
	• Cold zone full of cracklings	• Filter shortening
	• Improper rinsing after cleaning the fryer	• Clean and neutralize the frypot; rinse with vinegar to remove the alkaline, then rinse with hot water and dry frypot
Shortening will not drain from frypot	• Drain valve clogged with crumbs	• Open valve - push cleaning rod through drain opening from inside of frypot
Shortening leaking through drain valve	Obstruction in drain	Remove obstruction
	• Faulty drain valve	• Replace drain valve



1-4. ERROR CODES

In the event of a control system failure, the digital display shows an error message. These messages are coded: "E04", "E05", "E06", "E41". A constant tone is heard when an error code is displayed, and to silence this tone, press any of the product buttons.

DISPLAY	CAUSE	PANEL BOARD CORRECTION
"E04"	Control board overheating	Turn switch to OFF position, then turn switch back to ON; if display still shows "E04", the board is getting too hot; check for signs of overheating behind the control panel; once panel cools down the controls should return to normal; if "E04" persists, replace the control
"E05"	Shortening overheating	Turn switch to OFF position, then back to ON; if display shows "E05", the heating circuits and temperature probe should be checked; once the unit cools down, the controls should return to normal; if "E05" persists, replace the controls
"E06"	Temperature probe failure	Turn switch to OFF position, then back to ON; if the display shows "E06", the tempera- ture probe should be checked; once the temperature probe is repaired, or replaced, the controls should return to normal; if "E06" persists, replace the controls
"E41"	Programming Failure	Turn switch to OFF position, then back to ON. If display shows "E41", the control should be re-initialized (see programming section); if the error code persists, replace the control panel.
"E71"	Pump motor relay failure or wiring problem	Replace relay if contacts are stuck closed; check wiring on POWER/PUMP switch, or at wall receptacle; L1 and N may be reversed



1-4. ERROR CODES (Continued)

CE Only - Along with the error codes from page 1-11, CE units have the following self-diagnostic error codes:

DISPLAY	CAUSE	PANEL BOARD CORRECTION
"E10"	Highlimit	Reset the high limit by manually pushing up on the red reset button; if the high limit does not reset, the high limit must be replaced per the High Limt Temperature Control Section
"E15"	Drain Switch	Close the drain, using the drain valve handle; if display still shows "E-15", check the drain microswitch per the Drain Switch Section