SERVICE DATA SHEET GAS RANGES WITH MODULAR OVEN CONTROLS

NOTICE: This service data sheet is intended for use by persons having electrical and mechanical train ing and a level of knowledge of these subjects generally considered acceptable in the appliance repair trade. The manufacturer cannot be responsible, nor assume any liability, for injury or damage of any kind arising from the use of this data sheet.

IMPORTANT NOTE: This unit includes an EOC (electronic oven control). This board is not field-repairable

Safe Servicing Practices

To avoid the possibility of personal injury and/or property damage, it is important that safe servicing practices be observed. The following are some, but not all, examples of safe practices.

- Do not attempt a product repair if you have any doubts as to your ability to complete it in a safe and satisfactory manner.
- Before servicing or moving an appliance, remove power cord from electric outlet, trip circuit breaker to Off, or remove fuse.
- Never interfere with the proper installation of any safety device.
- Use only replacement parts specified for this appliance. Substitutions may not comply with safety standards set for home appliances.
- 5. Grounding: The standard color coding for safety ground wires is green or green with yellow stripes. Ground leads are not to be used as current carrying conductors. It is extremely important that the service technician reestablish all safety grounds prior to completion of service. Failure to do so will create a potential hazard.

- Prior to returning the product to service, ensure that:
- All electric connections are correct and secure
- All electrical leads are properly dressed and secured away from sharp edges, high-temperature
- components, and moving parts. . All uninsulated electrical terminals, connectors, heaters, etc. are adequately spaced away from
- all metal parts and panels. All safety grounds (both internal and external) are correctly and securely reassembled.
- All panels are properly and securely reassembled.

Temperature Adjustment

- While in a non-cooking mode, press and hold the Bake key for 3 seconds until UPO appears in the display.
- Use the number keys (0-9) to enter the desired adjustments (-35° to 35° F). Press the Self Clean key to change the sign of the adjustment to a (-), if necessary. A positive adjust-
- ment will not display a sign.
- 4. Once the desired adjustment (-35° to 35° F) has been entered, press START to accept the change or the STOP key to reject the change

Note: Changing calibration affects all baking modes. The adjustments made will not change the self-cleaning temperature.



CIRCUIT ANALYSIS MATRIX	Bake J19-3	Broil J19-2	Conv. J19-4	Door Motor J20-10	Light J20-6	Conv. Fan J20-9	Door Switch J5-7, J5-8	Cooling Fan J20-7
Bake	Х		Х			Х		Х
Broil		Х						Х
Conv. Bake	Х		Х			Х		Х
Conv. Roast	Х		Х			Х		Х
Clean	Х							Х
Locking				Х				
Unlocking				Х				
Light					Х			
Door Open					Х			
Door Closed							Y	

IMPORTANT
DO NOT REMOVE THIS BAG
OR DESTROY THE CONTENTS
WIRING DIAGRAMS AND SERVICE
INFORMATION ENCLOSED

REPLACE CONTENTS IN BAG

p/n A00980603 Rev C (1710)

RTD SCALE					
Temperature °F (°C)	Resistance (ohms)				
32 ± 1.9 (0 ± 1.0)	1000 ± 4.0				
75 ± 2.5 (24 ± 1.3)	1091±5.3				
250 ± 4.4 (121 ± 2.4)	1453±8.9				
350 ± 5.4 (177 ± 3.0)	1654 ± 10.8				
450 ± 6.9 (232 ± 3.8)	1852±13.5				
550 ± 8.2 (288 ± 4.5)	2047 ± 15.8				
650 ± 9.6 (343 ± 5.3)	2237 ± 18.5				
900 ± 13.6 (482 ±7.5)	2697 ± 24.4				
Probe circuit to case ground	Open circuit/infinite resistance				

MEAT PROBE TEMPERATURE VS RESISTANCE					
Temperature °F (°C)	Resistance (Kohm)				
77 (25)	50.0 ± 7%				
122 (50)	18.0 ± 4.9%				
176 (80)	6.3 ± 3.3%				
212 (100)	3.4 ± 4.6%				

Fault	Description of Error Code	Suggested Corrective Action			
Code	Tauch papel failure	Disconnect neuron weit 20 seconds and rear			
F001 F002 F004 F005	Iouch panel failure	Disconnect power, wait 30 seconds and reapp			
F003	The oven user interface board is incorrectly configured.	Replace the oven user interface board. Make			
F010	Oven temperature runaway: the cavity temperature has been detected in excess of the maximum safe operating temperature.	 If oven is overheating, disconnect powe If the oven temperature probe is good a 			
F011	Stuck key: a key has been detected has pressed continuously for 30 seconds or more.	 If a key was pressed inadvertently for a keyboard. The fault code should go awa means the error condition is still there. I If the fault code cannot be cleared, test or I2C2). If the fault code cannot be cleared and If the fault code cannot be cleared and 			
F012	Keyboard configuration alarm: the oven user interface board received from the touch panel a key code that does not match the key map.	 Verify the unit has the proper oven user Replace the oven user interface board. If the problem persists replace the touch 			
F013	Data written to non-volatile memory has failed verification	Disconnect power, wait 30 seconds and reapp			
F015	Keyboard error	Disconnect power, wait 30 seconds and reapp			
F017	The oven user interface board is unable to configure the touch panel.	 Disconnect power to the unit, wait 30 set If fault returns, verify harness going to I Verify the unit has the proper oven user If fault persists, replace the oven user in If fault persists, replace the touch panel 			
F018	Oven relay board failure (wiggler)	Replace the oven relay board.			
F019	The oven user interface board is unable to configure the oven relay board	 Disconnect power to the unit, wait 30 set If fault returns, verify connection betwee Verify the unit has the proper oven user If fault persists, replace oven user interf If fault persists, replace the relay board 			
F022	Communication failure between the oven user interface board and the oven relay board	Disconnect power, wait 30 seconds and Test wiring harness between oven user If wiring harness is good replace oven r If the problem persists replace the over			
F023	Communication failure between the oven user interface board and the glass touch panel	 Disconnect power, wait 30 seconds and Test wiring harness between oven user If wiring harness is good replace touch If the problem persists replace the over 			
F025 F027	The communication between the over user interface and the oven relay board cannot be initiated.	 Disconnect power to the unit, wait 30 set If fault returns, verify connection betweet Verify the unit has the proper oven user If fault persists, replace relay board. If fault persists, replace the oven user in 			
F028 F029	The communication between the over user interface and the touch panel cannot be initiated.	 Disconnect power to the unit, wait 30 set If fault returns, verify touch panel is con Verify the unit has the proper oven user If fault persists, replace the touch panel If fault persists, replace the oven user in 			
F030	Open oven temperature sensor (RTD)	1. Check probe circuit wiring for possible of Verify PTD resistance at room tempera			
F031	Shorted oven temperature probe (RTD)	3. If the problem persists replace the over			
F033	Meat probe temperature sensor shorted or too hot	 The error is triggered if the meat probe seen such temperature. If the tip of the the setpoint) and trigger the alarm. When the meat probe is connected to th cause the error. Make sure the probe is Verify meat probe resistance at room te If the above steps failed to correct the procement of the set of the probe is failed to correct the procement of the set of the			
F050	A/D Out of Range: the oven relay board is unable to read the status of the switches (door, MDL)	 Check to ensure that the connections b If the above step failed to correct the pr 			
F090	Motor Door Lock mechanism failure. The oven control does not see the Motor Door Lock running.	 Disconnect power to the unit, wait 30 set Check if the Lock Motor is running or no if there is 120VAC at the motor when it with the relay board (J20 pin 10 on the to the motor (unplug it from the relay board relay board that does not provide 120V/ If the Lock Motor is running but the ove ated) the Lock Switch needs to be veriff properly (verify continuity with ohmmete If all above steps failed to correct the si 			
F095	Motor Door Lock mechanism failure. The Motor Door Lock does not stop running or the Lock Switch sends an invalid signal.	 The problem can be caused by a faulty trolling it is stuck closed) replace the ov If the motor is not always running replace 			
F096	The oven door has been detected open during a Self Clean cycle.	 This error occurs if the door switch has switch plunger when the door is locked, Test continuity of wring between the do switch is closed when the plunger is pre If the switch and wiring are good and th 			

(EOC) FAULT CODE DESCRIPTIONS

ly power. If fault returns upon power-up replace the touch panel.

sure you install the latest revision available for this model.

er. Check oven temperature probe (RTD) and replace if necessary ind if oven continues to overheat when power is reapplied, replace the oven relay board.

long time this error code will be displayed. Make sure there is nothing (water, utensils) in contact with the ay once the key is released and the Stop key is pressed. If the F011 error comes back when a key is pressed it f the F011 error does not come back it means the error condition is gone and the oven can be used. the wiring harness between oven user interface board (connector I2C1 or I2C2) and touch panel (connector I2C1

the wiring is good, the touch panel is most likely defective: replace the touch panel he problem replace the oven user interface board.

interface board and touch panel, based on the model number and parts catalog

ch panel

ly power. If fault returns upon power-up replace the oven user interface.

ly power. If fault returns upon power-up replace the touch panel.

econds, then reapply power

2C1 or I2C2 connector of the touch panel.

interface board and touch panel, based on the model number and parts catalog

terface.

econds, then reapply power

en the oven user interface board (MACS1 or MACS2 connector) and the oven relay board (connector J3 or J4). interface board and oven relay board, based on the model number and parts catalog. face board.

reapply power. Check if error condition is still there interface board (connector MACS1 or MACS2) and oven relay board (connector J3 or J4) elay board. user interface

reapply power. Check if error condition is still there.

interface board (connector I2C1 or I2C2) and touch panel (connector I2C1 or I2C2). panel.

user interface

econds, then reapply power.

en the oven user interface board (MACS1 or MACS2 connector) and the oven relay board (connector J3 or J4). interface board and oven relay board, based on the model number and parts catalog.

terface board

econds, then reapply power

nected (verify harness going to I2C1 or I2C2 connector) and is getting power from the oven user interface. interface board and touch panel, based on the model number and parts catalog.

terface.

open or short condition

ture (compare to probe resistance chart). If resistance does not match the chart, replace the RTD probe. relay board.

sees a temperature in excess of 392°F. Make sure the meat probe was not used in such way that it could have probe is not inserted in the meat it will see the cavity temperature, which can be higher than 392°F (depending or

he socket inside the oven cavity, if the meat probe is not fully inserted into the socket it may short the contacts and inserted as much as it can.

mperature. Compare to meat probe resistance chart. If the meat probe does not match the chart, replace it. problem, replace the oven relay board.

etween the door switch. MDL and temp probes are properly connected. This includes all splices and junctions. oblem, replace the oven relay board

econds, then reapply power. Try again to make the door lock or unlock (ex: initiate a Lockout or a Clean cycle). ot. If it is not running, test the wiring between the Lock Motor and the oven relay board. If the wiring is good, check is expected to run to see if the failure originates from a bad motor (120VAC present but not turning) or a problem oven relay board is the output to the Lock Motor). The Lock Motor can also be tested by applying 120VAC directly ard first). If the Lock Motor does not run when 120VAC is applied replace the Lock Motor Assembly. If it is the AC to the Lock Motor replace the oven relay board.

n control cannot find the locked or unlocked position (ex: motor turns continuously until F90 fault code is generied. Check wiring between Lock Switch and oven relay board. Verify with ohmmeter if the switch makes contact er when the switch is pressed). If the Lock Switch is defective replace the Motor Lock Assembly. tuation, replace the oven relay board.

/ Lock Switch or by a defective oven relay board. If the Motor Door Lock is always running (as if the relay conen relav board

ce the Motor Lock Assembly

lost its contact during a Self Clean cycle. Make sure the oven door closes well and fully presses on the door and no one attempted to pull on the oven door during the Self Clean cycle. por switch and the oven relay board, make sure the door switch is well connected. With an ohmmeter, verify the essed. If the door switch is found to be defective replace the door switch. he problem persists, replace the oven relay board.



