NOTICE: This service data sheet is intended for use by persons having electrical and mechanical training 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. Verify the unit has the proper oven relay board, oven user interface board, and touch panel based on the model number and parts catalog.

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.

- 1. Do not attempt a product repair if you have any doubts as to your ability to complete it in a safe and satisfactory manner.
- 2. Before servicing or moving an appliance, remove power cord from electric outlet, trip circuit breaker to Off, or remove fuse.
- 3. 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

Refer to the Use & Care Manual for directions on how to adjust the oven temperatures.



| , RTD: | CIRCUIT | | Elements | | |
|--|---|---|------------|-------------|--|
| ÉCHELLE DU DÉTECTEUR DE | TEMPÉRATURE À RÉSISTANCE | ANALYSIS MATRIX | Bake J6 | Broil K4 | |
| Température Température °F (°C) 32 + 1.9(0 + 1.0) | Resistance (ohms) 1000 + 4.0 | Bake | X | X | |
| 75 + 25(24 + 13) | 1091 + 5 3 | Broil | | Х | |
| 250 + 4.4 (121 + 2.4) | 1452 + 9.0 | Conv. Bake | Х | Х | |
| 250 ± 4.4 (121 ± 2.4) | 1453±0.9 | Conv. Roast | Х | Х | |
| 350 ± 5.4 (177 ± 3.0) | 1654 ± 10.8 | Clean | Х | Х | |
| 450 ± 6.9 (232 ± 3.8) | 1852±13.5 | Locking | | | |
| 550 ± 8.2 (288 ± 4.5) | 2047 ± 15.8 | Unlocking | | | |
| 650 ± 9.6 (343 ± 5.3) | 2237±18.5 | Light | | | |
| 900 ± 13.6 (482 ±7.5) | 2697 ± 24.4 | Door Open | | ļ | |
| Probe circuit to case ground Circuit de la sonde mise à la terre à la caisse | Open circuit/infinite resistance Circuit ouvert/résistance infinie | Door Closed NOTES: Bake, broil, and convection element during non-convection functions to improve | | | |

| | ANALYSIS MATRIX | Bake J6 | Broil K4 | Conv. J7 | Door Motor J8-1 | Light J8-4 | Cooling Fan J8-5 | Conv. Fan J8-3 | Door Switch J8-1 | DLB L2 out K1 |
|---|---|------------|-------------|-------------|--------------------|---------------|------------------------|-------------------|---|------------------|
| Γ | Bake | Х | Х | Х | | | Х | Х | | Х |
| ſ | Broil | | Х | | | | Х | | | Х |
| ſ | Conv. Bake | Х | Х | Х | | | Х | Х | | Х |
| ľ | Conv. Roast | Х | Х | Х | | | X | Х | | Х |
| ľ | Clean | Х | Х | | | İ | Х | | İ da kara kara kara kara kara kara kara k | Х |
| Γ | Locking | | | | Х | | | | | |
| Ĩ | Unlocking | | | | Х | | | | | |
| Ī | Light | ĺ | | | | X | ĺ | | 1 | 1 |
| ľ | Door Open | ĺ | Ì | ĺ | ĺ | X | ĺ | ĺ | ĺ | |
| ľ | Door Closed | | | | | ĺ | | | Х | |
| | NOTES: Bake, broil, and convection elements alternate cycles. Convection fans may run during preheat and may run intermittently during non-convection functions to improve cooking performance. | | | | | | | | | |

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

| MEAT PROBE TEMPERATURE VS RESISTANCE TABLE | | | | |
|--|-----------------------|--|--|--|
| Temperature | ture Probe Resistance | | | |
| 77 °F / 25°C | 50.020 Kohm +/- 6% | | | |
| 122 °F / 50°C | 18.020 Kohm +/- 5% | | | |
| 176 °F / 80°C | 0°C 6.290 Kohm +/- 5% | | | |
| 212 °F / 100°C | 3.400 Kohm +/- 5% | | | |

| | | 1 | |
|-----|--|--|--|
| F4 | Keyboard tuning configuration alarm (key- | | |
| F5 | | | |
| F10 | Oven temperature runaway | Check RTD sensor and replace in require the entire oven to be repl | |
| F11 | Short key/stuck key | If a key is pressed inadverten board. The error code should that the error is still present. If If the fault cannot be cleared, If the fault code cannot be cle | |
| F12 | Keyboard configuration alarm: the oven user interface received a key that does not match the key map from the HMI touch panel. | Disconnect power, wait 30 secon | |
| F13 | OUI data flash alarm (non-volatile memory alarm) | Disconnect power, wait 30 secon | |
| F15 | Keyboard error, unable to read cancel key | Disconnect power, wait 30 secon | |
| F16 | Potentiometer failure alarm | Disconnect power, wait 30 secon Replace Oven Potentiometer. If p | |
| F17 | The oven user interface is unable to config- ure HMI alarm | Disconnect the power for 30 second touch control assembly. | |
| F18 | Oven relay board failure (wiggler) | Replace power board PCB (OVC | |
| F19 | The OUI is unable to configure the OVC | Disconnect power for 30 seconds replace OUI and/or OVC. | |
| F22 | Communication failure between OUI and OVC | Verify correct voltage across the ness connection. If harness is go | |
| F23 | Communication failure between the touch panel (HMI) and the user interface (OUI) | Verify correct voltage across the and OUI, test I2C1 or I2C2. If pro | |
| F25 | Communication failure between the touch panel(HMI) and the user interface (OUI) | Verify correct voltage across the connection. If problem persists, r | |
| F27 | |) (| |
| F29 | oven user interface cannot be initiated. | If error persists, check the wiring | |
| F30 | Open probe or connection | Check resistance at room temper between the RTD and OVC. | |
| F31 | Short temp probe | Check resistance at room temper between the RTD and OVC. | |
| F33 | Meat probe temperature sensor shorted or too hot. | The error is triggered if the mea such temperature. Meat probe replace the meat probe. If the e | |
| F45 | Cooling fan speed too low | Check if cooling fan blades are b | |
| F46 | Cooling fan speed too high | Check for mechanical obstruction | |
| F50 | A/D out of range, oven control is unable to read switches status (door, MDL) | Check connection between the d relay board. | |
| F61 | Missing zero cross signal OVC | Disconnect power to the unit, wa | |
| F90 | Maximum oven door unlock time exceeded | Disconnect power to the unit, Check if the lock motor is run there is 120 VAC at the motor the relay board (J20 pin 10 or from relay board first). If the n board. If the lock motor is running bu wiring between the lock switcl If all steps above fail replace for | |
| F95 | Motor door lock mechanism failure. The MDL does not stop running or the lock switch sends an invalid signal. | The problem can be caused by a closed) replace the relay board. I | |
| F96 | The oven door has been detected open during a self-clean cycle. | This error occurs if the door s plunger when the door is lock Test continuity of wiring betwee switch is closed when the plun of the above steps fail to fiv the | |

MDL invalid state, relay board (OVC) sensed

the MDL in a state it should not be in

Fault Code

F1

F2

F3

Description of Error Code

HMI data flash alarm

function)

Internal alarm (microcontroller)

Configuration checksum alarm (OUI cooking

Suggested Corrective Action

Resistance Temperature Detector

F07



ELECTRONIC OVEN CONTROL (EOC) FAULT CODE DESCRIPTIONS

Disconnect power, wait 30 seconds and reapply power. If problem persists, replace control assembly.

if necessary. If the oven is overheating, disconnect power, if problem persist replace relay board. Severe overheating may laced when damage is extensive.

ntly for a long time this error code will be displayed. Make sure that there is nothing (water, utensils) in contact with the keyd go away once the key is released and the stop key is pressed. If the error comes back when any key is pressed it means If the error does not come back it means the error condition is gone and the oven can be used. , test the wiring harness between oven user interface board (connector I2C1 or I2C2).

eared and the wiring is good, the touch panel is most likely defective: replace the control assembly (HMI and touch panel).

nds and reapply power. If problem persists, replace touch control assembly and OUI.

nds and reapply power. If problem persist replace OUI.

nds and reapply power. If problem persists, replace touch control assembly.

nds and reapply power. Verify harness between potentiometers and OUI. problem persists, replace control and potentiometers.

onds and reapply power. If the problem persist check the I2C1 or I2C2 harness connections. If the error persists replace

s, then reapply power. If fault returns, verify connection between the OUI and OVC (MACS1 or MACS2). If error persists,

system. Disconnect power for 30 seconds, then reapply power. If error persists, check the MCS1 or MACS 2 wiring harbod replace OUI and/or OVC.

system. Disconnect power for 30 seconds, then reapply power. If error persists check the wiring harness between the HMI oblem persists, replace HMI (touch panel assembly) and /or OUI.

system. Disconnect power for 30 seconds, then reapply power. If error persists, check the MCS1 or MACS 2 wiring harness replace OUI and/or touch panel assembly.

e system. Disconnect power for 30 seconds, then reapply power. If error persists, check the wiring harness for I2C1 or I2C2. g harness for MACS1 or MACS2 between the OUI and the power board. If problem persists, replace HMI and /or OUI.

rature and compare to RTD sensor resistance chart, if resistance don't match replace RTD sensor probe, check harness

rature and compare to RTD sensor resistance chart. If resistance don't match replace RTD sensor probe, check harness

t probe sees a temperature in excess of 393°F. Make sure the meat probe was not used in such way that it could have seen to not fully inserted. Verify Meat Probe resistance at room temperature. Compare meat probe resistance chart. If don't match ror persists, replace the OVC board.

locked. Confirm tachometer harness is connected on fan and oven control. Replace cooling fan. Replace oven control

n in the air path. Replace cooling fan. Replace oven control

door switch, MDL, and temp probes are properly connected, including splices and junctions. If problem persists, replace

ait 30 seconds and reapply power. If fault return test continuity of hardness between OVC and power supply. Replace OVC.

wait 30 seconds, then reapply power. Try again to make the door lock or unlock.

nning or not. If not running, test the wiring between the lock motor and the oven relay board. If the wiring is good check if r when is expected to run to see if the failure originates from a bad motor (120VSC present but no turning) or the problem is n the oven relay board is the output to MDL). The motor can also be tested applying 120VSC directly to the motor (unplug motor doesn't turn, replace the MDL assembly. If the relay board is not supplying 120 VAC to the motor, replace the relay

ut the oven control cannot find the locked position (ex: the MDL turns until F90 occurs) tverify the lock switch. Check the ch and the relay board. Verify with the ohmmeter if the switch makes contact properly. the oven relay board.

a faulty lock switch or by a defective oven relay board. If the MDL is always running (as if the relay controlling, it is stuck If the motor is not always running replace the motor lock assembly.

switch has lost contact during a self-clean cycle. Make sure the oven door closes well and fully presses on the door switch ked, and no one attempted to pull on the oven door during the self-clean cycle.

een the door switch and the oven relay board, make sure the door switch is well connected. With the ohmmeter verify the inger is pressed. If the door switch is found to be defective, replace the door switch. the problem, replace the relay board.

Disconnect the power to the unit, wait 30 seconds, then reapply power. If problem persists, replace MDL assembly. If fault persists, replace relay board.

