Electronic **Oven Control** (E.O.C. Rear View)

**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.

### SAFE SERVICING PRACTICES

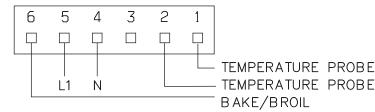
To avoid the possibility of personal injury and/or property damage, it is important that safe servicing practices be observed. The following are examples, but without limitation, of such practices.

- 1. Before servicing or moving an appliance remove power cord from electrical outlet, trip circuit breaker to OFF, or remove fuse.
- Never interfere with the proper installation of any safety device.
- 3. 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 safety 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.

### **Oven Calibration**

Set the electronic oven control for normal baking at 350°F. Obtain an average oven temperature after a minimum of 5 cycles. Press CANCEL or CLEAR to end bake mode.

# Electronic Oven Control (E.O.C.) Connections (J1)



Oven Temperature Adjustment (some models) - Do not use Bake or Broil while adjusting the oven temperature):

1. Press & hold the **BAKE** key pad and release after the display begins flashing the factory temperature setting of **00**.

Note: If the oven temperature has been previously adjusted from the factory setting, the current temperature adjusted value will flash in the display instead.

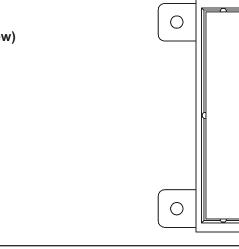
- You may increase the oven temperature in 5°F increments with each press of 2. the UP ARROW key pad to a maximum oven adjustment of +35°F. You may also adjust the oven temperature downward in 5°F increments with each press of the DOWN ARROW key pad (total adjustment range of -35 to +35 F. Note: Your oven control was factory set in the (Fahrenheit) °F Temperature Display Mode. To change for (Celsius) °C, see Changing the Temperature Display Mode in the Oven Control Functions section of this Use & Care Manual.
- If no other key pad is pressed after 5 seconds the display will begin to flash. 3.
- If you do not want to keep the display adjustment, press the CANCEL or 4 CLEAR key pad before the oven control beeps. This will cancel the temperature adjustment procedure. To start this procedure over again begin with step 1 above OR;
- 5 If you want to keep the adjustment, wait until the display quits flashing and the oven control beens once
- 6 The oven temperature adjustment has be accepted by the oven control and the display will return to the time of day.

Notes: The oven temperature adjustment may be made if your oven control has been set to operate in the (Celsius) °C Temperature Display Mode. In this case each press of the UP ARROW or DOWN ARROW key pad will adjust in 1°C increments upward (maximum +18°C) or downward (maximum -18°C), depending on which arrow key pad is pressed.

### Resistance Temperature Detector Scale

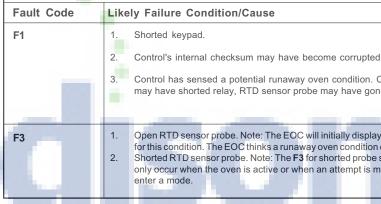
RTD SCALE			
Temperature (°F)	Resistance (ohms)		
32 ± 1.9	1000 ± 4.0		
75 ± 2.5	1091 ± 5.3		
$250 \pm 4.4$	1453 ± 8.9		
$350 \pm 5.4$	1654 ± 10.8		
450 ± 6.9	1852 ± 13.5		
550 ± 8.2	2047 ± 15.8		
650 ± 9.6	2237 ± 18.5		
900 ± 13.6	2697 ± 24.4		

### **Resistance Temperature Detector**



# Electronic Oven Control (E.O.C.) Fault Code Descriptions (some models-models that display F1 or F3)

Note: Only two fault codes are displayed by this control - F1 or F3. Generally, F1 display implies the electronic oven control itself has detected an internal malfunction. F3 implies the control has detected a sensor probe failure. In either case, an alarm will accompany a displayed F1 or F3.

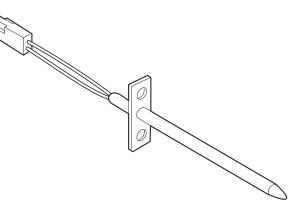


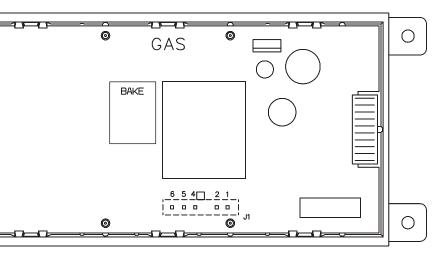
Electronic O	oven Control (E.O.C.) Fault Code Descriptions	5
Fault Code	Likely Failure Condition/Cause	;
F10	Runaway Temperature.	
F11	Shorted Keypad.	
	Bad Micro Identification.	
F13	Bad EEPROM Identification/Checksum error.	
F30	Open probe connection.	
F30	open probe connection.	'
F31	Shorted Probe connection.	

# **Circuit Analysis Matrix**



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





	Suggested Corrective Action		
ed. . Control one bad.	<ol> <li>Disconnect power, wait 30 seconds and reapply power. If fault returns upon power-up, replace EOC.</li> <li>Check RTD sensor probe and replace if necessary. If oven is overheating, disconnect power. If oven continues to overheat when the power is reapplied, replace EOC. Severe overheating may require the entire oven to be replaced, should damage be extensive.</li> <li>Replace EOC.</li> </ol>		
lay an <b>F1</b> on exists. be should made to	1. Check resistance at room temperature and compare to RTD sensor resistance chart. If resistance does not match the chart, replace RTD sensor probe.		
	<ol> <li>Check resistance at room temperature, if less than 500 ohms, replace RTD sensor probe.</li> </ol>		

# some models-models that display F10, F11, F13, F30 or F31)

### Suggested Corrective Action

1. (F10 only) Check RTD Sensor Probe & replace if necessary. If oven is overheating, disconnect power. If oven continues to overheat when the power is reapplied, replace EOC Severe overheating may require the entire oven to be replaced should damage be extensive 2. (F11 & 13) Disconnect power, wait 30 seconds and reapply power. 3. (F11 & 13) If fault returns upon power-up, replace EOC.

1. (F30 or F31) Check resistance at room temperature & compare to RTD Sensor resistance chart. If resistance does not match the RTD chart replace RTD Sensor Probe. Check Sensor wiring harness between EOC & Sensor Probe connector.

2. (F30 or F31) Check resistance at room temperature, if less than 500 ohms, replace RTD Sensor Probe. Check for shorted Sensor Probe harness between EOC & Probe connector.

EOC Relays	
L1 to Bake/Broil	Door Switch COM-NC
Х	
Х	
	Х

### **GENERAL TROUBLESHOOTING SCHEMATIC**

