



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for FRIGIDAIRE FFEF3011LW. You'll find the answers to all your questions on the FRIGIDAIRE FFEF3011LW in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

## User manual FRIGIDAIRE FFEF3011LW User guide FRIGIDAIRE FFEF3011LW Operating instructions FRIGIDAIRE FFEF3011LW Instructions for use FRIGIDAIRE FFEF3011LW Instruction manual FRIGIDAIRE FFEF3011LW

### SERVICE DATA SHEET

Electric Ranges with ES 100/105 Electronic Oven Control

**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.

#### SAFESERVING PRACTICES

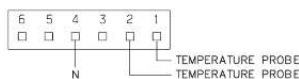
To avoid the possibility of personal injury and/or property damage, it is important that safe servicing practices be observed. The following are examples, but without limitation, of such practices:

- 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.
- 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 unshielded electrical terminals, connections, 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 (available on some models)

- Press and hold the Bake key pad and release after the display shows the factory temperature setting of 00. Note: if the oven temperature has been previously adjusted from the factory setting, the latest adjusted value will appear in the display instead.
- You may increase the oven temperature in 5°F increments with each press of the UP ARROW key pad. You may also adjust the oven temperature downward in 5°F increments with each press of the DOWN ARROW key pad (total adjustment range is +35°F to -35°F).
- To accept the change, wait until the oven control provides the acceptance beep. (See Notes below).
- The oven temperature adjustment has been accepted by the oven control and the display will return to the time of day.

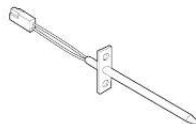
#### Notes:

- If at any time during the process of adjusting the oven temperature feature you decide not to make the change, press the Stop, Clear Off or Cancel key pad once before the acceptance beep.
- The oven temperature adjustment feature can not be modified if Bake or Broil is active.
- The oven temperature adjustment may be made if your oven control has been set for °C (Celsius) 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.

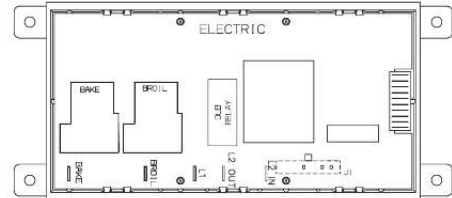
#### Resistance Temperature Detector Scale

RTD SCALE	
Temperature (°F)	Resistance (ohms)
32 ± 1.9	1000 ± 4.0
75 ± 2.5	1091 ± 5.3
250 ± 4.4	1453 ± 8.9
350 ± 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. rear view)



#### Electronic Oven Control 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.

Fault Code	Likely Failure Condition/Cause	Suggested Corrective Action
F1	<ol style="list-style-type: none"> <li>Shorted keypad.</li> <li>Control's internal checksum may have become corrupted.</li> <li>Control has sensed a potential runaway oven condition. Control may have shorted relay, RTD sensor probe may have gone bad.</li> </ol>	<ol style="list-style-type: none"> <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 reappplied, replace EOC. Severe overheating may require the entire oven to be replaced, should damage be extensive. Replace EOC.</li> </ol>
F3	<ol style="list-style-type: none"> <li>Open RTD sensor probe. Note: The EOC will initially display an F1 for this condition. The EOC thinks a runaway oven condition exists.</li> <li>Shorted RTD sensor probe. Note: The F3 for shorted probe should only occur when the oven is active or when an attempt is made to enter a mode.</li> </ol>	<ol style="list-style-type: none"> <li>Check resistance at room temperature and compare to RTD sensor resistance chart. If resistance does not match the chart, replace RTD sensor probe.</li> <li>Check resistance at room temperature. If less than 500 ohms, replace RTD sensor probe.</li> </ol>

#### Electronic Oven Control Fault Code Descriptions (some models-models that display F10, F11, F13, F30 or F31)

Fault Code	Likely Failure Condition/Cause	Suggested Corrective Action
F10	Runaway Temperature.	<ol style="list-style-type: none"> <li>If F10 only) Check RTD Sensor Probe &amp; replace if necessary. If oven is overheating, disconnect power. If oven continues to overheat when the power is reappplied, replace EOC. Severe overheating may require the entire oven to be replaced should damage be extensive.</li> <li>(F11 &amp; 13) Disconnect power, wait 30 seconds and reapply power.</li> <li>(F11 &amp; 13) If fault returns upon power-up, replace EOC.</li> </ol>
F11	Shorted Keypad.	
F13	Bad EEPROM Identification/Checksum error.	
F30	Open probe connection.	<ol style="list-style-type: none"> <li>(F30 or F31) Check resistance at room temperature &amp; compare to RTD Sensor resistance chart. If resistance does not match the RTD chart, replace RTD Sensor Probe. Check Sensor wiring name is between EOC &amp; Sensor Probe connector.</li> <li>(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 &amp; Probe connector.</li> </ol>
F31	Shorted Probe connection.	

#### Circuit Analysis Matrix

	EOC Relays		
	L1 to Bake	L1 to Broil	Door Switch COM-NC
Bake	X	X*	
Broil		X	
Door Open			X
Door Closed			

Note: X= Check listed circuits. \*= Alternates with Bake element.

**IMPORTANT**  
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REPLACE CONTENTS IN BAG

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**Manual abstract:**

1. 2. 3. 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. **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 Temperature Adjustment (available on some models) 1.

@@@F3 implies the control has detected a sensor probe failure. @@2. 3. Shorted keypad. Control's internal checksum may have become corrupted.

Control has sensed a potential runaway oven condition. @@2. Disconnect power, wait 30 seconds and reapply power. If fault returns upon power-up, replace EOC. Check RTD sensor probe and replace if necessary. If oven is overheating, disconnect power. @@Severe overheating may require the entire oven to be replaced, should damage be extensive. Replace EOC. 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. F3 1. 2. Open RTD sensor probe. Note: The EOC will initially display an F1 for this condition. The EOC thinks a runaway oven condition exists. Shorted RTD sensor probe. Note: The F3 for shorted probe should only occur when the oven is active or when an attempt is made to enter a mode. 3. 1.

Check resistance at room temperature and compare to RTD sensor resistance chart. If resistance does not match the chart, replace RTD sensor probe. Check resistance at room temperature, if less than 500 ohms, replace RTD sensor probe. 2. Electronic Oven Control (E.

O.C.) connections (J1) Resistance Temperature Detector Scale RTD SCALE Temperature (°F) 32 ± 1.9 75 ± 2.5 250 ± 4.4 350 ± 5.4 450 ± 6.9 550 ± 8.2 650 ± 9.6 900 ± 13.6 Resistance (ohms) 1000 ± 4.0 1091 ± 5.3 1453 ± 8.9 1654 ± 10.8 1852 ± 13.

5 2047 ± 15.8 2237 ± 18.5 2697 ± 24.4 F30 F31 Open probe connection. Shorted Probe connection. F13 F11 Shorted Keypad. Bad Micro Identification. Bad EEPROM Identification/Checksum error. 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.

Electronic Oven Control Fault Code Descriptions (some models-models that display F10, F11, F13, F30 or F31) Fault Code F10 Likely Failure Condition/Cause Runaway Temperature. Suggested Corrective Action 1. (F10 only) Check RTD Sensor Probe & replace if necessary. If oven is overheating, disconnect power. @@@2.

(F11 & 13) Disconnect power, wait 30 seconds and reapply power. 3. .



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