SERVICE DATA SHEET

318047472 (1003) Rev. A

Electric Wall Oven with 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.

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. 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 and turn off gas supply.
- 3. Never interfere with the proper installation of any safety device.
- 4. USE ONLY REPLACEMENT PARTS CATALOGED FOR THIS APPLIANCE. SUBSTITUTIONS MAY DEFEAT COMPLIANCE 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.
- 6. 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 non-insulated 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.

ELECTRONIC OVEN CONTROL (DOUBLE WALL OVEN)

1. This self-cleaning controller offers Bake, Broil, Convection Bake, Convection Roasting and Convection Broil modes, Dehydrating, Defrosting, Temperature Probe, Perfect Turkey (some models), Bread Proof, Keep Warm and Cleaning functions.

- 2. Convection operates with an element and a fan dedicated to convection.
- 3. This controller includes a display board, a relay board, and a convection fan and oven light control board.

NOTE: These

illustrations are for double wall ovens only. The illustrations for the single wall ovens can be found on the next page.

NOTE: The

controllers are not field repairable. Only temperature settings can be changed. See oven calibration.

BASIC MODES base brol Conv. base Conv. rosst Conv. brol Conv. brol	UPPER OVEN	U timer on-off	1 2	23	Conv., prehest probe (cook duration end opyTOMS
SPECIALITY dow multi	LOWER	•	4 5	56	() () ()
MODES cook stage derrost denyarate proof dean	OVEN	timer on-off	78	39	my my my favorite favorite
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Printed in the United States

ELECTRONIC OVEN CONTROL (SINGLE WALL OVEN)

- 1. This self-cleaning controller offers Bake, Broil, Convection Bake, Convection Roasting and Convection Broil modes, Dehydrating, Defrosting, Temperature Probe, Perfect Turkey (some models), Bread Proof, Keep Warm and Cleaning functions.
- 2. Convection operates with an element and a fan dedicated to convection.
- 3. This controller includes a display board, a relay board, and a convection fan and oven light control board.



NOTE: The controllers are not field repairable. Only temperature settings can be changed. See oven calibration.

ELECTRONIC DOUBLE WALL OVEN CONTROL

Electronic oven control relay board for double wall oven



Relay Board Legend:

K1 Double Line Break - Linner Oven
K2. Double Line Break - Lower Oven
K3. Broil Relay - Upper Oven
K4. Broil Relay - Lower Oven
K5. Bake Relay - Upper Oven
K6. Bake Relay - Lower Oven
K7. Convection Element Relay - Upper Oven
K8. Convection Element Relay - Lower Oven
K11.Motor Door Latch - Upper Oven
K12.Motor Door Latch Relay - Lower Oven
K15. Cooling Fan Relay 1 - Lower Oven
K16. Cooling Fan Relay 1 - Upper Oven
K17. Cooling Fan Relay 2 - Lower Oven
K18. Cooling Fan Relay 2 - Upper Oven

This relay board serves to energize the upper and lower oven heating elements, door lock motor and cooling fan.

- P1 L2 Out, Upper Oven
- P2 L2 Out, Lower Oven
- P3 L2 In, Upper Oven
- P4 Not Used
- P5 L1, Upper Oven
- P6 L1, Lower Oven
- P7 Broil, Upper Oven
- P8 Broil, Lower Oven
- P9 Bake, Upper Oven
- P10 Bake, Lower Oven
- P11 Convection Element, Upper Oven
- P12 Convection Element, Lower Oven
- P17 Not Used
- P18 L2 In, Lower Oven

- J2 DC Power Output To Display Board
- J3 AC Power Output (motor door latch, cooling fan) For Upper Oven
- J4 AC Power Output (motor door latch, cooling fan) For Lower Oven and Power Input (L1, Neutral)
- J5 Relay Control Inputs (bake and broil elements, motor door latch, DLB) For Upper Oven
- J6 Relay Control Inputs (cooling fan, conv element) For Both Ovens
- J7 Relay Control Inputs (bake and broil elements, motor door latch, DLB) For Lower Oven

ELECTRONIC OVEN DISPLAY BOARD FOR DOUBLE WALL OVEN



Connector Legend:

- P1 Upper Oven Probe Input
- P2 Communication with Convection Fan and Oven Light Control Board
- P3 Keyboard (touch panel)
- P6 Microprocessor Programming (not used)
- P7 Touch Panel LEDs
- P8 Power Supply Input for Touch Panel LEDs
- P9 Relay Control Output (heating elements, DLB, motor door latch) for Upper Oven
- P10 Switches Input (motor door latch switch, door switch, rack switch) for Upper Oven
- P11 Relay Control Output (heating elements, DLB, motor door latch) for Lower Oven
- P12 Switches Input (motor door latch switch, door switch, rack switch) for Lower Oven
- P13 Relay Control Output (cooling fans) for Upper and Lower Ovens
- P16 DC Power Supply Input
- P18 Upper and Lower Oven Meat Probe Input
- P20 Lower Oven Probe Input

POWER SUPPLY BOARD FOR SINGLE AND DOUBLE WALL OVEN



This board provides power to the oven control display. P1 - AC Power Input (L2 and Neutral)

P2 - DC Power Output

CONVECTION FAN AND OVEN LIGHTS CONTROL BOARD



This board control the power output of the convection fan and oven lights. The double wall oven is equipped with 2 of these variable convection boards. One for each oven.

- P1 Communication with display board and power supply input
- P2 AC power output for convection fan and oven lights, power inputs (L1, neutral)
- P3 Microprocessor programming (not used)

ELECTRONIC OVEN CONTROL RELAY BOARD FOR SINGLE WALL OVEN



Relay Board Legend:

K1. Double Line Break K3. Broil Relay K5. Bake Relay K7. Convection Element Relay K11. Motor Door Latch K16. Cooling Fan Relay 1 K18. Cooling Fan Relay 2

This relay board serves to energize the oven heating elements, door lock motor and cooling fan.

- P1 L2 Out
- P3 L2 In
- P5 L1
- P7 Broil
- P9 Bake
- P11 Convection Element
- P17 Not Used

- J2 DC Power Output To Display Control Board
- J3 AC Power Output (motor door latch, light, cooling fan)
- J4 Power Input (L1, Neutral)
- J5 Relay Control Inputs (bake and broil elements, motor door latch, DLB)
- J6 Relay Control Inputs (cooling fan, conv element)

ELECTRONIC OVEN DISPLAY BOARD FOR SINGLE WALL OVEN



Connector Legend:

- P1 Oven Probe Input
- P2 Communication with Convection Fan and Oven Light Control Board
- P3 Keyboard (touch panel)
- P6 Microprocessor Programming (not used)
- P7 Touch Panel LEDs
- P8 Power Supply Input for Touch Panel LEDs
- P9 Relay Control Output (heating elements, DLB, motor door latch)
- P10 Switches Input (motor door latch switch, door switch, rack switch)
- P13 Relay Control Output (cooling fans)
- P16 DC Power Supply Input
- P18 Meat Probe Input

ELE	CTRONIC OVEN CONTROL (E	OC) FAULT CODE DESCRIPTIONS						
Note	Note: Generally speaking "F1X" implies a control failure, "F3X" an oven probe problem, and "F9X" a latch motor problem.							
Failu	ure Code/ Condition/Cause	Suggested Corrective Action						
F10	Control has sensed a potential runaway oven condition. Control may have shorted relay, RTD sensor probe may have a gone bad.	Check RTD sensor probe and replace if necessary. If oven is overheating, disconnect power. If oven continues to overheat when power is reapplied, replace relay board and/ or display board.						
F11	Shorted Key: a key has been detected as	Press any key to clear the error.						
	a shorted key alarm and will terminate all	If fault returns, replace the keyboard (touch panel).						
	oven activity.	If the problem persists, replace the display board.						
F13	Control's internal checksum may have	Press any key to clear the error.						
		Disconnect power, wait 30 seconds and reapply power. If fault returns upon power-up, replace display board.						
F14	Misconnected keyboard cable	Verify connection between display board and touch panel (2 ribbon cables). Make sure the cables are well connected at both ends.						
		If the cables are good, replace the touch panel.						
		If the problem persists, replace the display board.						
F15	Controller self check failed.	Verify if relay board receives 120VAC between J4 pin 1 and 3.						
		Verify the wiring between J2 on the relay board and P16 on the display board.						
		If wiring and 120VAC supply is good replace the display board.						
		If problem persists replace the relay board.						
F23	The controller failed to communicate with the (upper) convection fan and oven lights control board	Verify wiring between P2 on the display board and P2 on the convection fan and oven lights control board.						
	control board.	If wiring is good, replace convection fan and oven lights board.						
		If the problem persists, replace the display board.						
F24	The controller failed to communicate with the lower convection fan and oven lights control beard (On double wall even)	Verify wiring between P2 on the display board and P2 on the convection fan and oven lights control board.						
	board. (On double wan over)	If wiring is good, replace convection fan and oven lights board.						
		If the problem persists, replace the display board.						
F25	No zero cross signal detected on the upper or lower convection fan and oven lights	Make sure L1 and Neutral are connected to the convection fan and oven lights control board on connector P2 (P2 pin 3 = neutral / P2 pin 5 = L1).						
		If problem persists, replace the upper and/or lower oven convection fan and oven lights control board.						
F26	Missing lower oven select signal on the lower oven convection fan and oven lights control board (double wall oven only).	The lower oven conv. fan and oven lights board is supposed to receive 5V on pin 5 of connector P1. This voltage originates from the display board (connector P2 pin 4), check wiring.						
		If problem persists, replace the con. fan and oven lights control board.						
F30	Open RTD sensor probe/ wiring problem.	Check wiring in probe circuit for possible open condition.						
F31	a runaway condition exists. Shorted RTD sensor probe / wiring problem.	Check RTD resistance at room temperature (compare to probe resistance chart). If resistance does not match the chart, replace the RTD sensor probe.						
Note	: F30 or F31 is displayed when oven is in	Let the oven cool down and restart the function.						
active is ma	e mode or an attempt to enter an active mode ide.	If the problem persists, replace the display board.						
F90	Door motor mechanism failure.	Press any key to clear the error.						
		If it does not eliminate the problem, turn off power for 30 seconds, then turn on power.						
		Check wiring of Lock Motor, Lock Switch and Door Switch circuits.						
		Unplug the lock motor from the board and apply power (L1) directly to the Lock Motor. If the motor does not rotate, replace Lock Motor Assembly.						
		Check Lock Switch for proper operation (do they open and close, check with ohmmeter). The Lock Motor may be powered as in above step to open and close Lock Switch. If the Lock Switch is defective, replace Motor Lock Assembly.						
		If all above steps fail to correct situation, replace the display board and/or the relay board in the event of a motor that does not rotate.						
		If all the above steps fail to correct the situation, replace the display board in the event of a motor that rotates endlessly.						

RTD SCALE							
Temp. °F	Temp. °C	Resistance (ohms)					
32 ± 1.9	0.0 ± 1.1	1000 ± 4.0					
75 ± 2.5	23.9 ± 1.4	1091 ± 5.3					
250 ± 4.4	121.1 ± 2.4	1453 ± 8.9					
350 ± 5.4	176.7 ± 3.0	1654 ± 10.8					
450 ± 6.9	232.2 ± 3.8	1852 ± 13.5					
550 ± 8.2	287.8 ± 4.6	2047 ± 15.8					
650 ± 9.6	343.3 ± 5.3	2237 ± 18.5					
900 ± 13.6	482.2 ± 7.6	2697 ± 24.4					

ELECTRICAL RATING								
Kw Rating 240/208V	See Nameplate	Bake Element Wattage	2200W/1653W					
Broil Element Wattage	27" Models 3400W/2554W 30" Models 4000W/3004W	Convection Element Wattage	<u>Electrolux models</u> 2500W/1879W <u>Electrolux/ICON Models</u> 1600W/1202W					

MEA	PROBE T	EMPERATURE VS R	ESISTANCE TABLE	OVEN TEMPERATURE SENSOR
Temp. Celsius	Temp. Fahreinheit	Probe Resistance	Probe MTG Nut	
25°C	77°F	49.478 Kohm +/- 7%	Probe	
50°C	122°F	17.737 Kohm +/- 4.9%	Receptacle	
80°C	176°F	6.107 Kohm +/- 3.3%	Probe	
100°C	212°F	3.264 Kohm +/- 4.6%	\	

COOLING FAN

The oven control controls the cooling fan. The two relays are used but their output are tied together. Relay 2 will become active during clean cycle at high temperature. The cooling fan is activated during any cooking and cleaning functions.

S	INGL	EW	ALL O	VEN /	UPPE	R OVEN ON D	OUBLE W	ALL O	VEN	
	I			CIRC			RIX	1		
		On Re	lay Boar	rd I	On Co Oven L	onvection Fan and ights Control Board	On Display Board		On Relay Bo	bard
	E	LEMEN I	ITS I	Door		J	Door Switch	DLB L2 out	Cooling Relay 1	Cooling Relay 2
	Bake P9	Broil P7	Conv. P13	Motor J3-5	Light P2-1	Convection Fan P2-7	P8-3 / P8-5	P1	J3-7	speed J3-8
Bake	X	х	Х*			X*		Х	Х	
Keep Warm	X							Х	Х	
Broil		х						Х	X***	X***
Conv. Bake	X	х	Х			Х		Х	Х	
Conv. Roast	Х	х	Х			Х		Х	Х	
Conv. Broil		х	Х			Х		х	Х	
Clean	Х	Х	X**			X**		Х	Х	Х
Locking				Х						
Locked										
Unlocking				Х						
Unlocked										
Light					Х					
Door Open					Х		х			
Door Closed										
Bread Proof	l v									
Bread 11001	^							Х	X	
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Relay will operate in this condition only.

* Convection element and fan are used for the first rise of temperature. ** Convection element & fan are used during the cleaning cycle on the Electrolux/ICON models. *** Electrolux models use cooling fan high speed during broil. Electrolux ICON models use cooling fan low speed during broil.

Block Diagram and System Interconnections

Double wall oven is illustrated. For single oven simply omit lower oven components and connections.

