SERVICE DATA SHEET

Electric Ranges with ES 200/205/300 & 305 Electronic Oven Controls

7 6 5 4 3 2 1

LOCK SWITCH (MDL) RETURN MOTOR

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.
- 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
 - 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

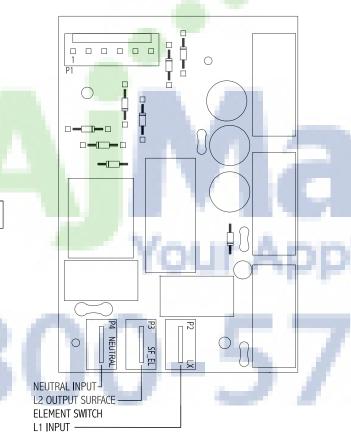
Set the electronic oven control for normal baking at 350°F. Obtain an average oven temperature after a minimum of 5 cycles. Press STOP/CLEAR to end bake

TEMPERATURE ADJUSTMENT

- 1. Set EOC to bake at 550°F.
- Within 5 seconds of setting 550°F, press and hold the bake pad for approximately 15 seconds until a single beep is heard (longer may cause F11 shorted keypad alarm).
- Calibration offset should appear in the display.
- Use the slew keys to adjust the oven temperature up or down 35°F in 5°F increments.
- Once the desired (-35° to 35°) offset has been applied, press STOP/CLEAR.

Note: Changing calibration affects normal Bake mode. The adjustments made will not change the Self-Cleaning cycle temperature.

SIMMER SELECT PCB (some models)



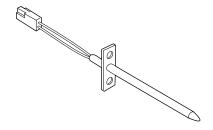
TEIM ENTRONE TROBE	- 1
DOOR SWITCH	

E.O.C. CONTROL CONNECTIONS (P5)

DOOR LATCH TEMPERATURE PROBE (MDL) LOCK SWITCH (MDL) -DOOR SWITCH &

15 14 13 12 11 10 9

RESISTANCE TEMPERATURE DECTECTOR



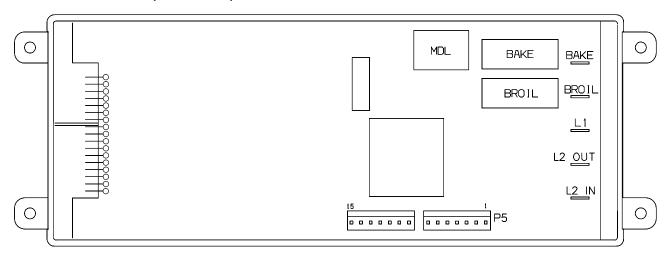
IMPORTANT DO NOT REMOVE THIS BAG OR DESTROY THE CONTENTS WIRING DIAGRAMS AND SERVICE **INFORMATION ENCLOSED**

REPLACE CONTENTS IN BAG

p/n 316441731 (0611)

RTD SCALE Temperature (°F) Resistance (ohms) 1000 ± 4.0 32 ± 1.9 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

ELECTRONIC OVEN CONTROL (REAR VIEW)



ELECTRONIC OVEN CONTROL FAULT CODE DESCRIPTIONS

Fault Code	Likely Failure Condition/Cause	Suggested Corrective Action
F10	Runaway Temperature.	1. (F10 only) Check RTD Sensor Probe & replace if necessary. If oven is overheating, disconnection
F11	Shorted Keypad.	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, 12 & 13) Disconnect power, wait 30 seconds and reapply power.
F12	Bad Micro Identification.	3. (F11, 12 & 13) If fault returns upon power-up, replace EOC.
F13	Bad EEPROM Identification/Checksum error.	
F30	Open probe connection.	1. (F30 or F31) Check resistance at room temperature & compare to RTD Sensor resistance chart
F31	Shorted Probe connection.	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 Senso Probe. Check for shorted Sensor Probe harness between EOC & Probe connector.
F90	Maximum oven door unlock time exceeded.	1. (F90, 91, 92, 93 & 94) Check the wiring between EOC & Lock Motor Micro Switch.
F91	Maximum oven door unlock attempts exceeded.	 (F90, 91, 92, 93 & 94) Replace the Motor Door Latch assembly if necessary. (F90, 91, 92, 93 & 94) Check for binding of the Latch Cam, Lock Motor Rod & Lock Motor Cam (F90, 91, 92, 93 & 94) Check to see if Lock Motor Coil is open. If open, replace Lock Motor
F92	Maximum oven door open time exceeded.	Assembly.
F93	Maximum oven door lock time exceeded.	5. (F90, 91, 92, 93 & 94) Lock Motor continuously runs - if Micro Switch is open, replace Lock Moto Assembly.
F94	Maximum oven door lock attempts exceeded.	6. (F92, 93 & 94) Check oven door Light Switch - if open, replace Switch. 7. If all situations above do not solve problem, replace EOC.

CIRCUIT ANALYSIS

MATRIX				,	
	EOC Relays				
	L1 to Bake	L1 to Broil	L1 to Motor Door Latch	Door Switch COM-NO	Warmer Drawer Lock Switch (Motor Door Latch)
Bake/Time Bake	Х	X*			Х
Broil		Х			X
Clean	Х				
Unlocked					Х
Locking			Х		Х
Locked					
Unlocking			Х		Х
Door Open					
Door Closed				Х	

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

TROUBLESHOOTING DIAGRAM

TROUBLESHOOTING SCHEMATIC

