

SERVICE DATA SHEET

Electric Ranges with ES 530 Electronic Oven Control & Bake-N-Warm™ Oven (some models)

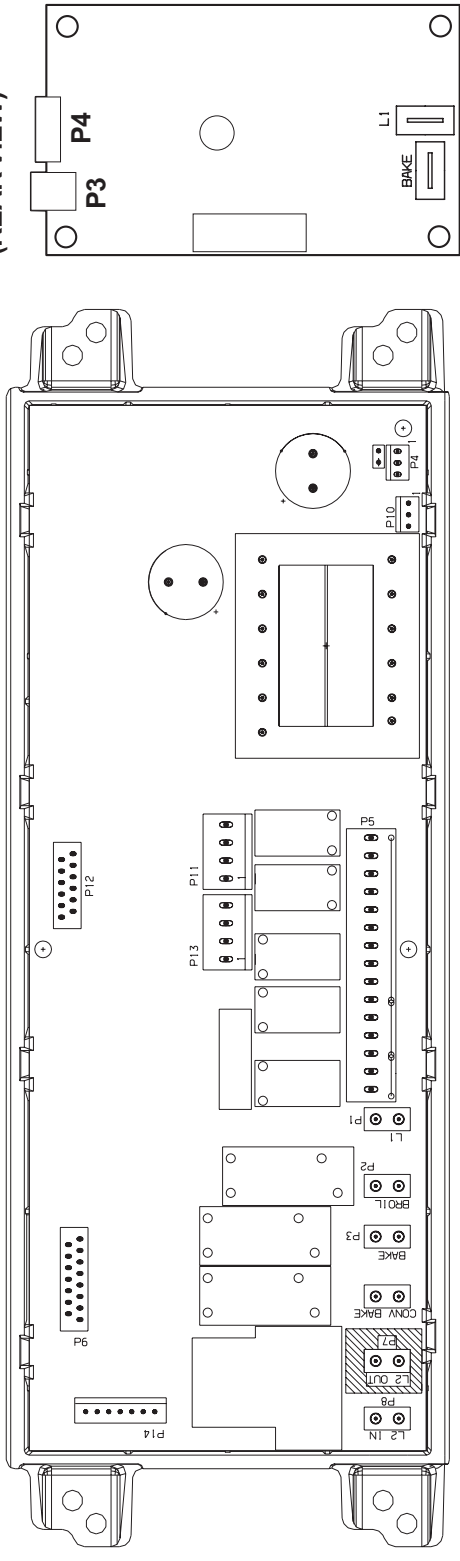
NOTICE - This service data sheet is intended for use by persons having electrical and mechanical training and a level of knowledge of these subjects generally considered acceptable in the appliance repair trade. The manufacturer cannot be responsible, nor assume any liability for injury or damage of any kind arising from the use of this data sheet.

SAFE SERVICING PRACTICES

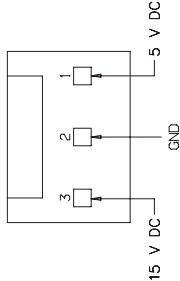
To avoid the possibility of personal injury and/or property damage, it is important that safe servicing practices be observed. The following are examples, but without limitation, of such practices.

- 1. Before servicing or moving an appliance remove power cord from electrical outlet, trip circuit breaker to OFF, or remove fuse.
- 2. 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.

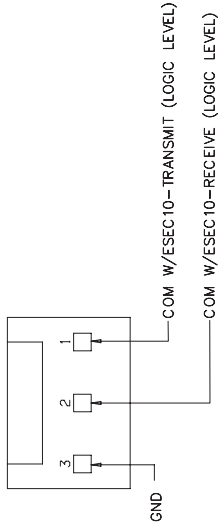
Electronic Oven Control (EOC Rear View)



EOC P10 BAKE-N-WARM™ CONNECTION (some models)

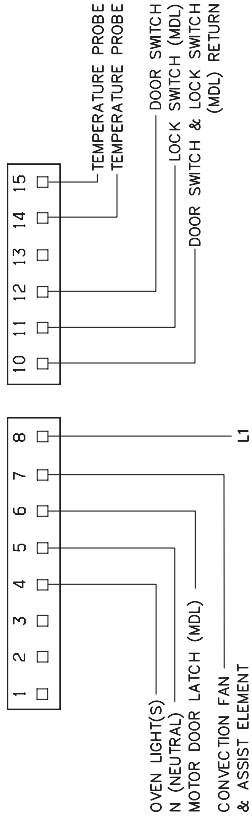


EOC P4 BAKE-N-WARM™ CONNECTION (some models)

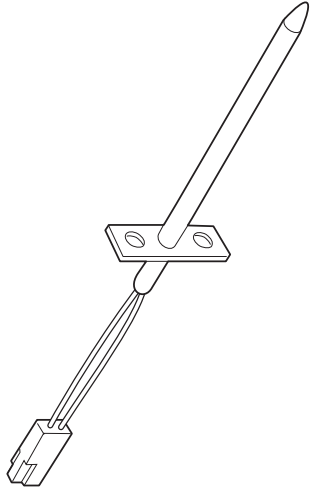


IMPORTANT
DO NOT REMOVE THIS BAG
OR DESTROY THE CONTENTS
WIRING DIAGRAMS AND SERVICE INFORMATION ENCLOSED
REPLACE CONTENTS IN BAG

EOC P5 CONNECTIONS



RESISTANCE TEMPERATURE DETECTOR



ELECTRONIC OVEN CONTROL FAULT CODE DESCRIPTIONS

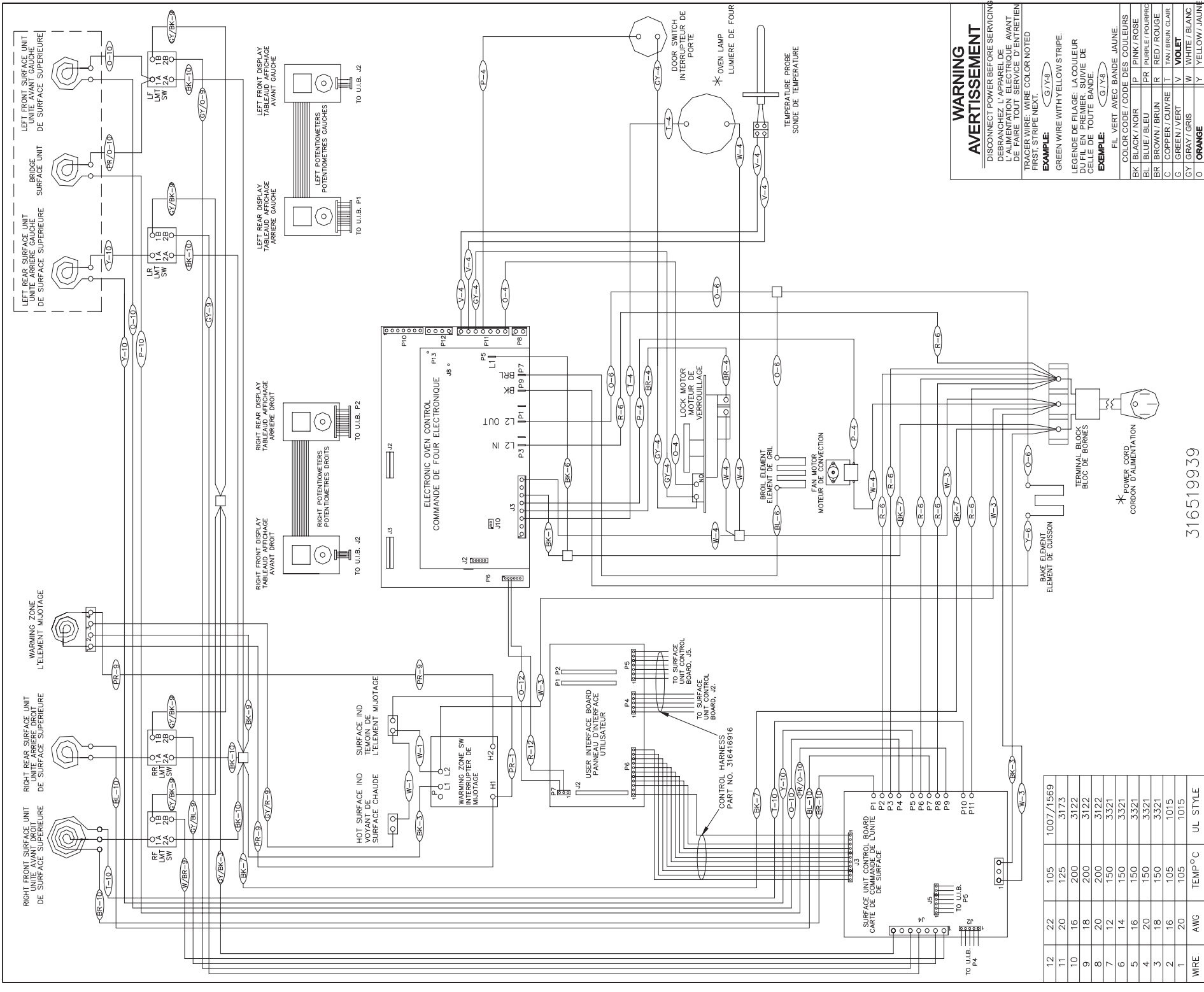
Fault Code	Likely Failure Condition/Cause	Suggested Corrective Action
F10	Runaway Temperature.	1. (F10 only) Check RTD Sensor Probe & replace if necessary. If oven is overheating, disconnect power. If oven continues to overheat when the power is reappplied, replace EOC. Severe overheating may require the entire oven to be replaced should damage be extensive.
F11	Shorted Keypad.	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.	
F20	Communication failure between EOC & ESEC system or EOC.	1. Test harness/connections P4 (EOC) & P7 (Surface Element Control Board) or EOC.
F26	Communication failure with Mini Oven Control Board.	1. Check harness & connectors from the EOC to Mini Oven Control Board. Check for 15VDC to Mini Oven Control Board (red & gray wires). If harness and voltage are good replace Mini Oven Control Board. If fault returns replace the EOC.
F30	Shorted Probe connection.	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.
F31		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.
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.	2. (F90, 91, 92, 93 & 94) Replace the Motor Door Latch assembly if necessary.
F92	Maximum oven door open time exceeded.	3. (F90, 91, 92, 93 & 94) Check for binding of the Latch Cam, Lock Motor Rod & Lock Motor Cam.
F93	Maximum oven door lock time exceeded.	4. (F90, 91, 92, 93 & 94) Check to see if Lock Motor Coil is open. If open, replace Lock Motor Assembly.
F94	Maximum oven door lock attempts exceeded.	5. (F90, 91, 92, 93 & 94) Lock Motor continuously runs - if Micro Switch is open, replace Lock Motor Assembly.
		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	L1 to Conv/Speed Bake Fan	L2 IN to L2 OUT
Bake/Time Bake	X	X*			X
Conv/Speed Bake	X	X*		X	X
Broil		X			X
Clean	X				X
Locking			X		
Unlocking			X		
Door Open					
Door Closed					X
Cooktop Active					

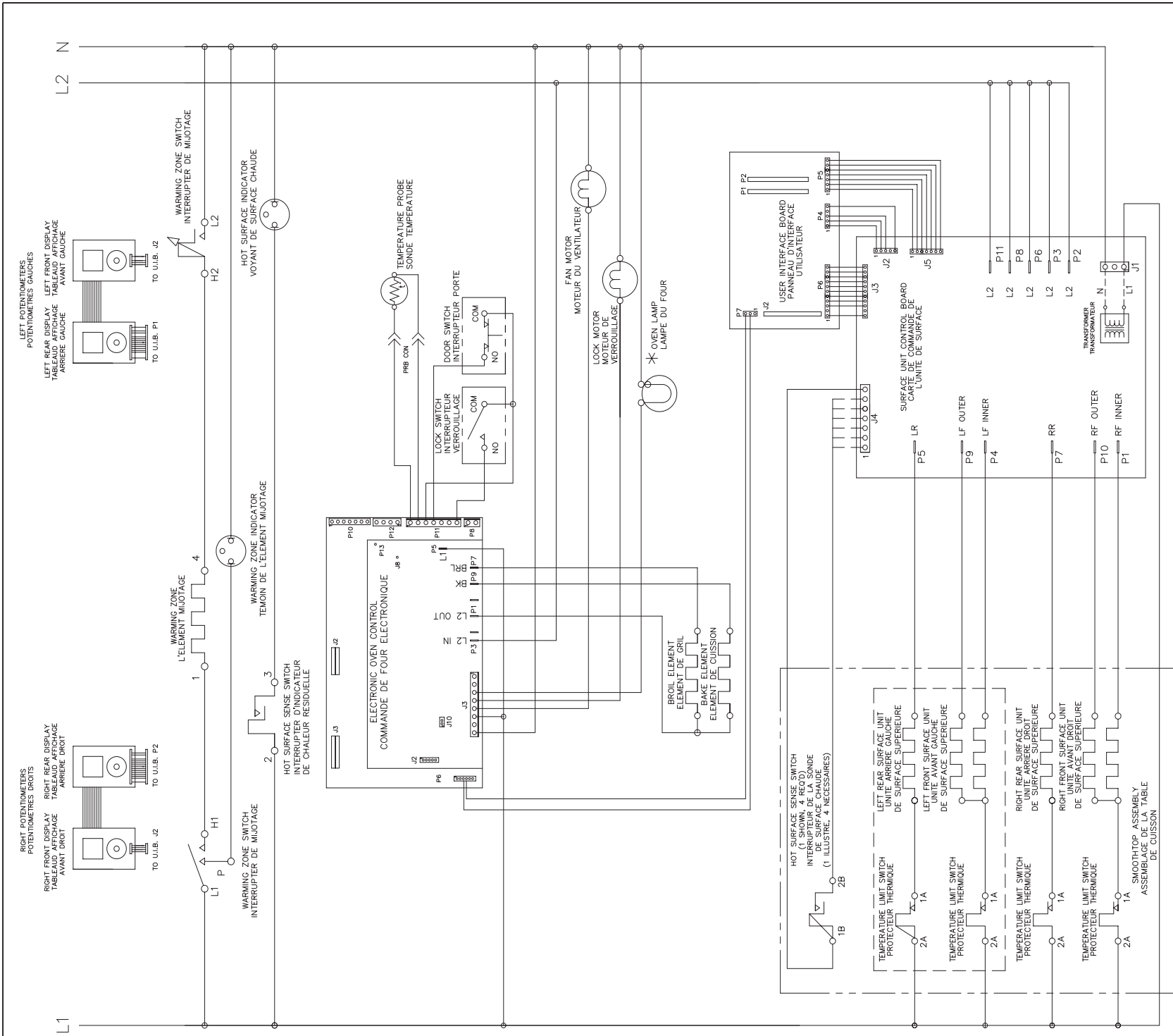
Note: X=Relay Contacts Closed. * Alternates with the Bake Element.

GENERAL TROUBLESHOOTING DIAGRAM



316519939

GENERAL TROUBLESHOOTING SCHEMATIC



- NOTES:
REMARQUES:
- CIRCUIT SHOWN WITH ALL CONTROLS SET TO OFF.
OVEN DOOR CLOSED AND UNLOCKED.
 - LE CIRCUIT EST PRESENTE AVEC TOUTES LES COMMANDES A LA POSITION ARRET.
 - LES COMPOSANTS MARQUES D'UN * N'APPARAISSENT PAS SUR TOUTS LES MODELES.

316519939