

SERVICE DATA SHEET

Gas Range with ES 570 Electronic Oven Control

A 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.

Oven Calibration

Set the electronic oven control for normal baking at 350°F. Obtain an average oven temperature after a minimum of 5 cycles. The oven calibration can not be modified.

Temperature Offset Adjustment

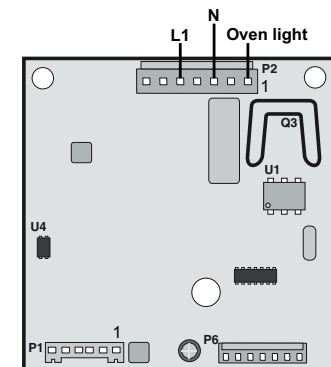
See Owner's Manual.

Electronic Display Board

This display board serves for Freestanding Range

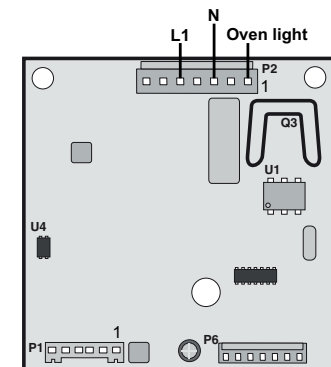
- D1- Bake Mode Indicator Light
- D2- Convection Bake Mode Indicator Light
- D3- Convection Roast Mode Indicator Light
- D4- Broil Mode Indicator Light
- D5- Clean Mode Indicator Light
- D6- Lock Mode Indicator Light
- D7- Racks Indicator Light

Goes to P8 oven control.

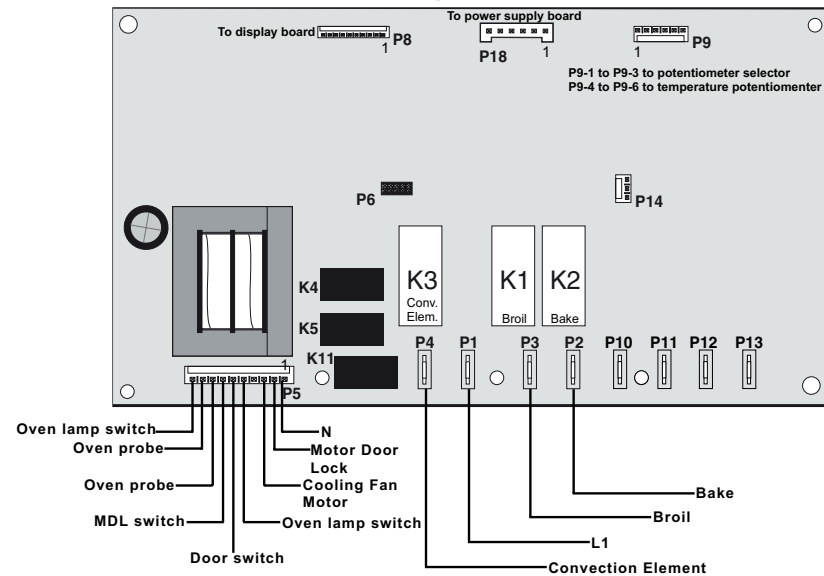


P1 to oven control relay board

Triac Board

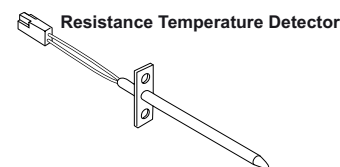


Electronic oven control relay board



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

p/n 809008407 Rev A (1701) EN



RTD SCALE	
Temperature °F (°C)	Resistance (ohms)
32 ± 1.9 (0 ± 1.0)	1000 ± 4.0
75 ± 2.5 (24 ± 1.3)	1091 ± 5.3
250 ± 4.4 (121 ± 2.4)	1453 ± 8.9
350 ± 5.4 (177 ± 3.0)	1654 ± 10.8
450 ± 6.9 (232 ± 3.8)	1852 ± 13.5
550 ± 8.2 (288 ± 4.5)	2047 ± 15.8
650 ± 9.6 (343 ± 5.3)	2237 ± 18.5
900 ± 13.6 (482 ± 7.5)	2697 ± 24.4
Probe circuit to case ground	Open circuit/infinite resistance

ELECTRONIC OVEN CONTROL (EOC) FAULT CODE DESCRIPTIONS

Failure Code	Likely Failure Condition/Cause	Suggested Corrective Action																					
<table border="1"> <tr><th colspan="7">Front Panel LED</th></tr> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td></tr> <tr><td>X</td><td></td><td></td><td></td><td>X</td><td></td><td></td></tr> </table>	Front Panel LED							1	2	3	4	5	6	7	X				X			Control has sensed a potential runaway oven condition. Control may have shorted relay, RTD sensor probe may have 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 control board.
Front Panel LED																							
1	2	3	4	5	6	7																	
X				X																			
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1	2	3	4	5	6	7																	
X					X																		
<table border="1"> <tr><th colspan="7">Front Panel LED</th></tr> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td></tr> <tr><td>X</td><td></td><td></td><td></td><td></td><td></td><td>X</td></tr> </table>	Front Panel LED							1	2	3	4	5	6	7	X						X	Incorrect EEPROM Checksum, control internal checksum may have been corrupted.	Disconnect power, wait 30 seconds and reapply power. If fault returns upon power-up, replace control board.
Front Panel LED																							
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Front Panel LED																							
1	2	3	4	5	6	7																	
		X		X																			
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Front Panel LED																							
1	2	3	4	5	6	7																	
		X			X																		
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Front Panel LED																							
1	2	3	4	5	6	7																	
X			X																				
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Front Panel LED																							
1	2	3	4	5	6	7																	
		X	X																				
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Front Panel LED																							
1	2	3	4	5	6	7																	
X	X	X																					

LED Legend:

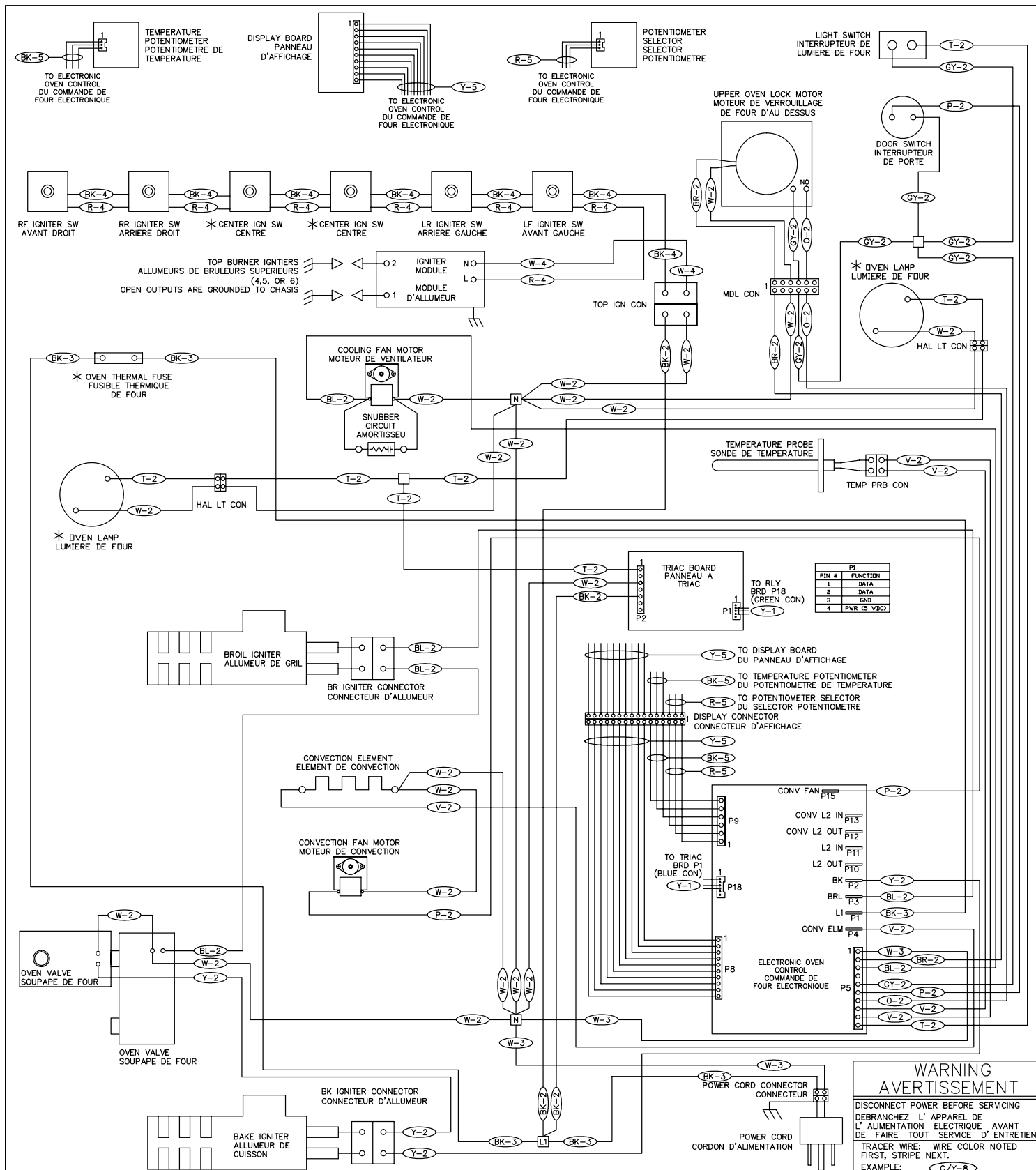
- 1 - Bake
- 2 - Convection Bake
- 3 - Convection Roast
- 4 - Broil
- 5 - Clean
- 6 - Lock
- 7 - Remove racks

Circuit Analysis

Matrix	EOC Relays 570 Gas						Door Switch Contacts COM-NO
	L1 to Bake	L1 to Broil	L1 to Motor Door Latch	L1 to Convection Fan	L1 to Convection Heating Element	L1 to Oven Lamps	
Bake	X ²				X ¹		
Convection Bake	X ²			X*	X ²		
Convection Roast	X ²			X*	X ¹		
Broil		X					
Self-Clean	X ²						
Locking			X				
Unlocking			X				
Door Open						X	O
Door Closed						O	X
Oven Lamps(ON)						X	

Notes: X = Circuit contact closed. O = Circuit contacts open. * = Alternates with bake element. X¹ = During preheat.

X² = Cycles as needed. X* = Fan comes on after 6 minutes.



NOTES:
1. COMPONENTS WITH * DO NOT APPEAR ON ALL MODELS.

NOTES:
1. LES ITEMS POURVUS D'UN * NE SONT PAS COMPRIS DANS TOUS LES MODELES.

5	22	150	1007/1569
4	20	150	3321
3	18	150	3321
2	20	150	3321
1	22	105	1007/1569
WIRE	AWG	TEMP °C	UL STYLE

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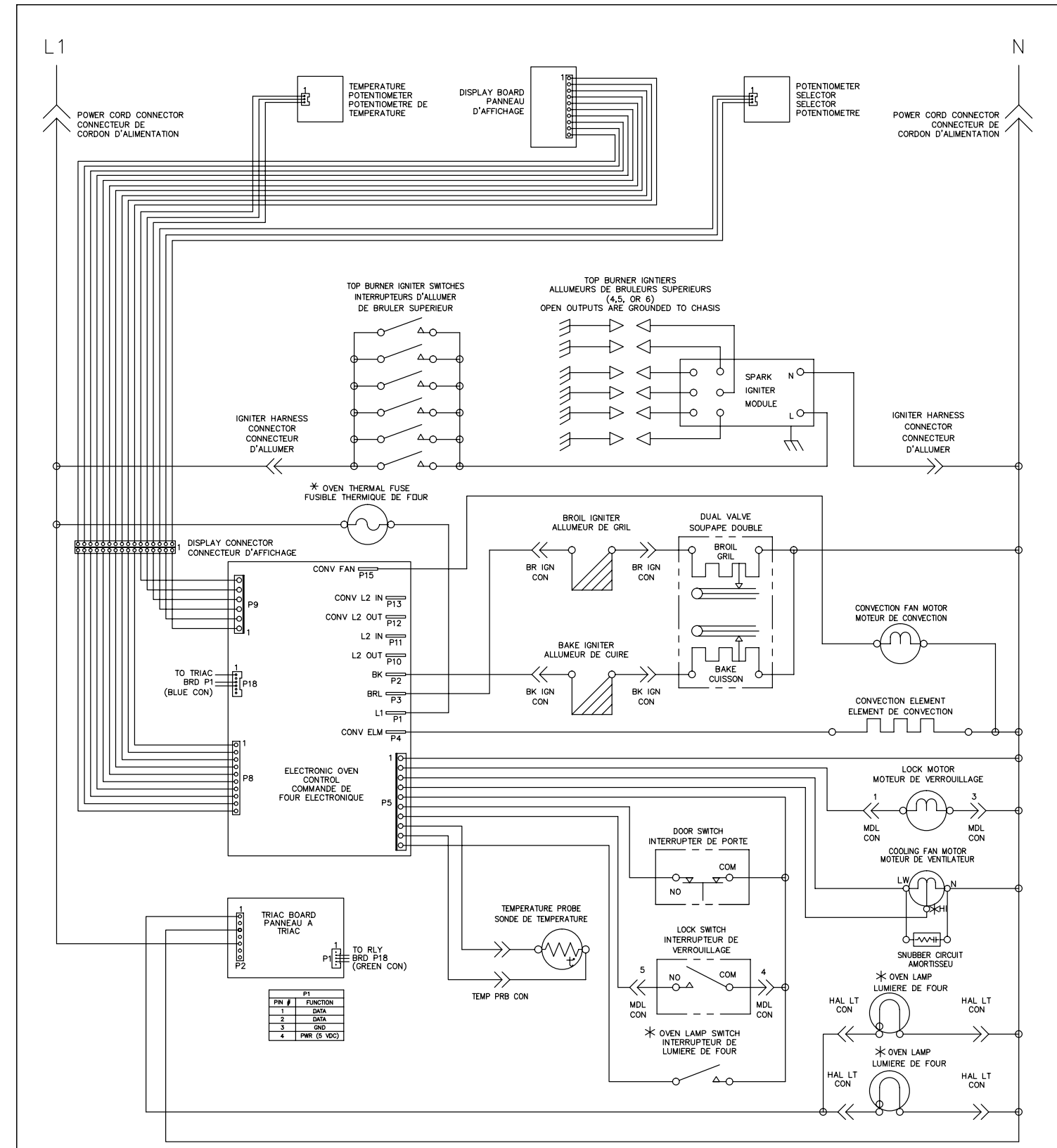
**WARNING
AVERTISSEMENT**

DISCONNECT POWER BEFORE SERVICING
DEBRANCHEZ L'APPAREIL DE L'ALIMENTATION ELECTRIQUE AVANT DE FAIRE TOUT SERVICE D'ENTRETIEN

TRACER WIRE: WIRE COLOR NOTED FIRST, STRIPE NEXT.
EXAMPLE: **G/Y-B**
GREEN WIRE WITH YELLOW STRIPE.

LEGENDE DE FILAGE: LA COULEUR DU FIL EN PREMIER, SUIVIE DE CELLE DE TOUTE BANDE.
EXEMPLE: **G/Y-B**
FIL VERT AVEC BANDE JAUNE.

COLOR CODE / CODE DES COULEURS			
BK	BLACK / NOIR	P	PINK / ROSE
BL	BLUE / BLEU	PR	PURPLE/POURPRE
BR	BROWN / BRUN	R	RED/ROUGE
C	COPPER / CUIVRE	T	TAN/BRUN CLAIR
G	GREEN / VERT	V	VIOLET
GY	GRAY / GRIS	W	WHITE/BLANC
O	ORANGE	Y	YELLOW/JAUNE



NOTES:
1. CIRCUIT SHOWN WITH ALL CONTROLS SET TO OFF.
2. COMPONENTS WITH * DO NOT APPEAR ON ALL MODELS.

NOTES:
1. ILLUSTRATION DE CIRCUIT AVEC TOUTES LES COMMANDES REGLEES A OFF. PORTE DE FOUR FERMEE ET DEVERROUILLEE.
2. LES ITEMS POURVUS D'UN * NE SONT PAS COMPRIS DANS TOUS LES MODELES.

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