MC-1

TECHNICAL EDUCATION

FAILURE CODES AND WIRING DIAGRAMS for MAYTAG HERITAGE GAS & ELECTRIC RANGES

JOB AID 8178713

FORWARD

This Maytag Heritage Job Aid, “Failure Codes And Wiring Diagrams For Gas & Electric Ranges,” (Part No. 8178713), provides the technician with information on Diagnosing and Troubleshooting Maytag Heritage Gas & Electric Ranges. It is to be used as a training Job Aid. For specific information on the model being serviced, refer to the “Use and Care Guide,” or “Tech Sheet” provided with the unit.

The Wiring Diagrams used in this Job Aid are typical and should be used for training purposes only. Always use the Wiring Diagram supplied with the product when servicing the unit.

GOALS AND OBJECTIVES

The goal of this Job Aid is to provide detailed information that will enable the In-Home Service Professionals to properly diagnose malfunctions and repair Maytag Heritage Ranges.

The objectives of this Job Aid are to:

- Successfully troubleshoot and diagnose malfunctions.
- Offer Electronic Oven Control information.

WHIRLPOOL CORPORATION assumes no responsibility for any repairs made on our products by anyone other than In-Home Service Professionals.

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H1	8507P256-60	MGS5775BDW	Gas Slide-In Range	16026292	4-15
H1	8507P275-60	MGS5875BDW	Gas Slide-In Range	16026292	4-15
NSC	8507P350-60	MLR4451AJQ	Gas F/S Range	16026765	3-7
NSC	8507P350-60	MLR4451AJS	Gas F/S Range	16026765	3-7
NSC	8507P350-60	MLR4451AJW	Gas F/S Range	16026765	3-7
M1	8507P254-60	MLR5755QDW	Gas F/S Range	16027225	8-18
H1	8507P281-60	MMW5530DAW	Electric Wall Oven w/MW	16026275	4-17
NSC	8507P347-60	PER1125ACW	Electric F/S Range	16026486	3-5
M1	8507P304-60	PER3524ACW	Electric F/S Range	16026485	8-4
M1	8507P304-60	PER3525ACW	Electric F/S Range	16026485	8-4
M1	8507P304-60	PER3724ACW	Electric F/S Range	16026484	8-4
M1	8507P304-60	PER3725ACW	Electric F/S Range	16026484	8-4
NSC	8507P347-60	PER4311ACW	Electric F/S Range	16023535	3-5
M1	8507P304-60	PER5720ACW	Electric F/S Range	16023481	8-4
M1	8507P304-60	PER5720LAW	Electric F/S Range	16023534	8-4
M1	8507P252-60	PER5750QAW	Electric F/S Range	16025650	8-7
M1	8507P252-60	PER5750QCW	Electric F/S Range	16023323	8-3
M1	8507P304-60	PERL252AAW			
M1	8507P304-60	PERL451AAB			
M1	8507P304-60	PERL451ACW	Electric F/S Range	16026687	
M1	8507P258-60	PGS3759BDW	Gas Slide-In Range	16026792	8-12
NSC	8507P348-60	PGR4420LDW	Gas F/S Range	16026763	3-7
M1	8507P250-60	PGR5720LDW	Gas F/S Range	16023524	8-6
M1	8507P254-60	PGR5750LDW	Gas F/S Range	16023524	8-6
NSC	8507P247-60	PGRL251ADW			
M1	8507P250-60	PGRL451ADB			
M1	8507P304-60	RESF3330DW			
M1	8507P304-60	RESF5330DT			
M1	8507P250-60	RGSF3330DW			
M1	8507P250-60	RGSF5330DT			
UH	8507P211-60	RJDO2702A	Electric Wall Oven	16025885	10-7
UH	8507P210-60	RJDO2703A	Electric Wall Oven	16025885	10-7
UH	8507P211-60	RJDO3002A	Electric Wall Oven	16025885	10-7
UH	8507P210-60	RJDO3003A	Electric Wall Oven	16025885	10-7
UH	8507P209-60	RJSO2701A	Electric Wall Oven	16025884	10-6
UH	8507P209-60	RJSO3001A	Electric Wall Oven	16025884	10-6
M1	8507P240-60	RS160LXTB	Electric Slide-In Range	16026294	8-10
M1	8507P240-60	RY160LXTB	Electric Slide-In Range	16026294	8-10

GENERAL

GAS & ELECTRIC RANGE SAFETY

Your safety and the safety of others are very important.

We have provided many important safety messages in this manual and on the appliance. Always read and obey all safety messages.

This is the safety alert symbol.

This symbol alerts you to potential hazards that can kill or hurt you and others.

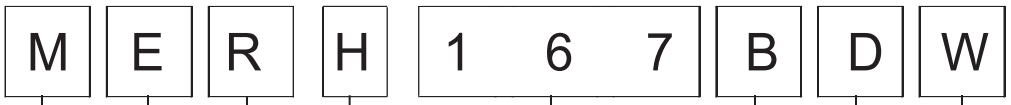
All safety messages will follow the safety alert symbol and either the word “DANGER” or “WARNING.” These words mean:

⚠ DANGER **You can be killed or seriously injured if you don’t <u>immediately</u> follow instructions.**

⚠ WARNING **You can be killed or seriously injured if you don’t follow instructions.**

All safety messages will tell you what the potential hazard is, tell you how to reduce the chance of injury, and tell you what can happen if the instructions are not followed.

Cooking Nomenclature



Brand

A	Amana
C	Magic Chef
G	Graffer & Sattler
H	Hardwick
J	Jenn-Air
M	Maytag
N	Norge
U	Universal
Y	Crosley

Fuel

B	Butane
D	Dual Fuel
E/J	Electric
G	Gas, Natural
L	Liquid Propane
M	Microwave
P	Standing Pilot
X	No Fuel
W	Warming Drawer

Product Type

A	Accessory/Cartridge
C	Cooktop Updraft/Countertop
D	Downdraft Cooktop or Warming Drawer
E	Eyelevel Range
G	Grill
L	Range (20")
M	Range (36")
P	Drop In (24")
Q	Wall Oven (27")
R	Range, Free-Standing (30")
S	Slide-In (30")
T	Range Hood
V	OTR
W	Wall Oven
Y	RV Range
Z	RV Top

National Accounts

B = Best Buy
H = Home Depot
S = Sears

Feature Content

1000-3999	Brands
4000-6999	Maytag/Amana
7000-9999	Jenn Air

Production Code

This identifies the production version.

Listing

A	UL/AGA
C	CSA/CGA/CUL
D	Dual Listed
G	220-240 V / 50-60 Hz
M	Military Model
P	PSB Approved (Singapore)
X	Export 120 V / 60 Hz

Color

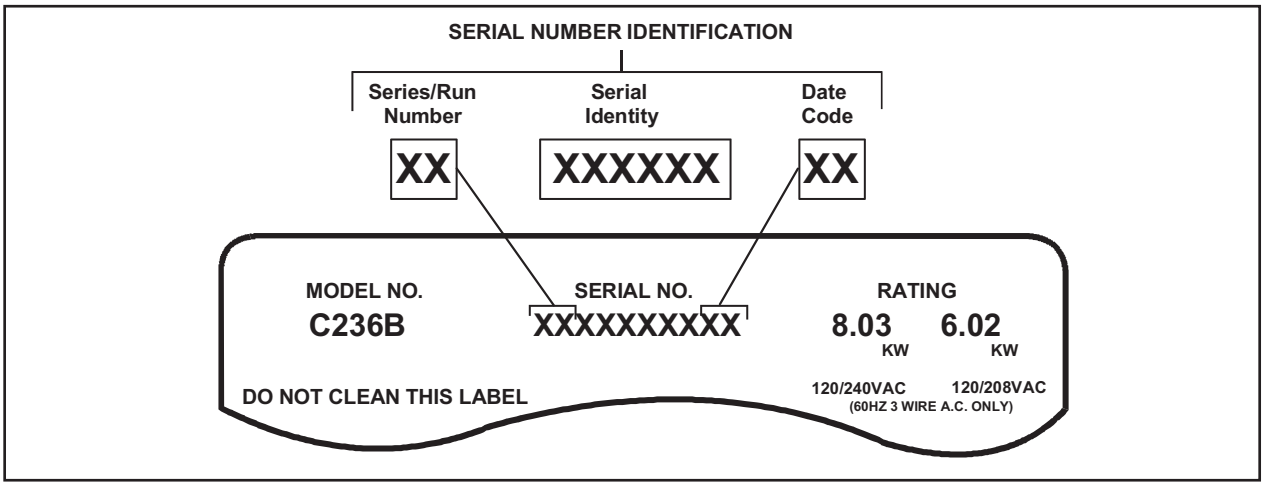
A	Almond on Almond
B	Black
C	Brushed Chrome
H	Traditional White
L	Traditional Almond
P	Prostyle
Q	Monochromatic Bisque
S	Stainless
T	Traditional Bisque
W	White on White
F	Frost White (True Color White)
N	Natural Bisque (True Color Bisque)

MAYTAG®

Serial Number Identification

There are three parts which Identifies the Serial Number.

- Series/Run Number – Indicates a specific product design.
  - These two digits can be either alpha or numeric characters.
- Serial Identity – Identifies the number assigned to a product.
- Date Code – Indicates the month and year in which the product was built.



NOTE: Some Amana Products are still identified by using a Manufacturing Number (PXXXXXXXM).

All serial numbers consist of eight digits, followed by two letters.

The first letter indicates the year in which the product was produced.

Year	Code
2000	Y
2001	Z
2002	A
2003	C
2004	E
2005	G
2006	J
2007	L
2008	N
2009	P
2010	R
2011	T
2012	V
2013	X

The second letter indicates the month in which the product was produced.

Years Span	Month	Code
2002 – 2013	January	A
2002 – 2013	February	C
2002 – 2013	March	E
2002 – 2013	April	G
2002 – 2013	May	J
2002 – 2013	June	L
2002 – 2013	July	N
2002 – 2013	August	P
2002 – 2013	September	R
2002 – 2013	October	T
2002 – 2013	November	V
2002 – 2013	December	X

MODEL & SERIAL NUMBER LABEL AND WIRING DIAGRAM LOCATIONS

The Model/Serial Number label and Wiring Diagram locations are shown below.

DESCRIPTION OF ERROR CODES

ERROR CODES

Description of Error Codes

Error diagnostic codes can only be viewed by entering the Diagnostic Code Display Mode.
Each error code is four digits long and is created based on the following table.

Digit	Description	
1st	Primary System:	1 – Local to the control circuit board 3 – Sensor or meat probe 4 – Control input 9 – Door lock
2nd	Measurable:	d – Diagnostic failure: measurable parameter c – Control related error, replace control
3rd	Primary failure mechanism	
4th	Oven Cavity:	1 – Upper oven (or single cavity oven) 2 – Lower oven c – Control specific

Diagnostic Code Checking

Code	Description	When Checked	Detection
1c1c	Shorted key	Always	1 minute
1c2c	Keyboard tail disconnected	Always	1 minute
1c31	Cancel key circuit problem	Always	20 sec
1c32	Cancel key circuit problem	Always	20 sec
1c4c	Power micro communication failure	Always	20 sec
1c6c	EEPROM error	When accessing EEPROM	3 tries
1c7c	Control not calibrated	Always	3 tries
1c81	Cook profile corrupted in EEPROM	Cook or clean programmed	3 tries
1c82	Cook profile corrupted in EEPROM	Cook or clean programmed	3 tries
1d11	Runaway temperature (650°F), door unlocked	Latch unlocked	1 minute
1d12	Runaway temperature (650°F), door unlocked	Latch unlocked	1 minute
1d21	Runaway temperature (950°F), door locked	Latch locked	1 minute
1d22	Runaway temperature (950°F), door locked	Latch locked	1 minute
3d11	Temperature sensor failure (open)	Cook or Clean active	20 sec
3d12	Temperature sensor failure (open)	Cook or Clean active	20 sec
3d21	Temperature sensor failure (short)	Cook or Clean active	20 sec
3d22	Temperature sensor failure (short)	Cook or Clean active	20 sec
3d41	Meat probe shorted	Probe cook programmed	20 sec
3d51	Meat probe not calibrated	Always	3 sec
4d11	Door switch position failure	Clean or Keyboard Lockout active	1 minute
4d12	Door switch position failure	Clean or Keyboard Lockout active	1 minute
4d21	No Reverse Airflow Fan rotation (no/low RPM)	Cook or Clean programmed	1 minute
4d22	No Reverse Airflow Fan rotation (no/low RPM)	Cook or Clean programmed	1 minute
4d31	Reverse Airflow Fan state error (on when supposed to be off)	When supposed to be off	1 minute
4d32	Reverse Airflow Fan state error (on when supposed to be off)	When supposed to be off	1 minute
4d41	High Reverse Airflow Fan rotation, high RPM	Cook or Clean programmed	1 minute
4d42	High Reverse Airflow Fan rotation, high RPM	Cook or Clean programmed	1 minute
4d51	Door switch circuit failure	Convect, Clean, or Keyboard Lockout programmed	1 minute
4d52	Door switch circuit failure	Convect, Clean, or Keyboard Lockout programmed	1 minute
9d11	Latch will not lock [6]	Latch should be locked	See note 6
9d12	Latch will not lock [6]	Latch should be locked	See note 6
9d21	Latch will not unlock [6]	Latch should be unlocked	See note 6
9d22	Latch will not unlock [6]	Latch should be unlocked	See note 6
9d31	Latch both locked and unlocked [6]	Latch should be locked or when lock attempted	See note 6
9d32	Latch both locked and unlocked [6]	Latch should be locked or when lock attempted	See note 6

Code	Measured	Display	Action Taken
1c1c	Keypress		Disable audible for affected key depression, Disable all outputs [1, 2] Disable lights and timers
1c2c	Keyboard loop improper value		Disable audible for key depression, Disable all outputs [1] Disable lights and timers
1c31	Cancel key improper value	mssg 1 (active) / mssg 2 (data)	Disable all outputs for cavity [1]
1c32	Cancel key improper value	mssg 1 (active) / mssg 2 (data)	Disable all outputs for cavity [1]
1c4c	CRC invalid	mssg 1 (active) / mssg 2 (data)	Disable all outputs [1]
1c6c	No response from EEPROM	mssg 1 (active) / mssg 2 (data)	Disable all outputs [1]
1c7c	Calibration value out of range	mssg 1 (active) / mssg 2 (data)	Completely disable oven [4]
1c81	CRC invalid	mssg 1 (active) / mssg 2 (data)	Disable affected oven function [1]
1c82	CRC invalid	mssg 1 (active) / mssg 2 (data)	Disable affected oven function [1]
1d11	Sensor resistance >2237 Ω	mssg 1 (active) / mssg 3 (data)	Disable all cooking functions for cavity
1d12	Sensor resistance >2237 Ω	mssg 1 (active) / mssg 3 (data)	Disable all cooking functions for cavity
1d21	Sensor resistance >2787 Ω	mssg 1 (active) / mssg 3 (data)	Disable all cooking functions for cavity
1d22	Sensor resistance >2787 Ω	mssg 1 (active) / mssg 3 (data)	Disable all cooking functions for cavity
3d11	Sensor resistance > Infinite Ω	mssg 1 (active) / mssg 2 (data)	Disable all cooking functions for cavity
3d12	Sensor resistance > Infinite Ω	mssg 1 (active) / mssg 2 (data)	Disable all cooking functions for cavity
3d21	Sensor resistance < 0 Ω	mssg 1 (active) / mssg 2 (data)	Disable all cooking functions for cavity
3d22	Sensor resistance < 0 Ω	mssg 1 (active) / mssg 2 (data)	Disable all cooking functions for cavity
3d41	Probe resistance < 0 Ω	mssg 1 (active) / mssg 2 (data)	Disable all probe functions
3d51	Calibration value out of range	mssg 2	Disable all probe functions
4d11	Door switch not closed when door is locked	mssg 1	Disable Clean and lockout functions [5]
4d12	Door switch not closed when door is locked	mssg 1	Disable Clean and lockout functions [5]
4d21	Reverse Airflow Fan rotation (no/low RPM)	mssg 1 (active) / mssg 2 (data)	Disable all cooking functions for cavity
4d22	Reverse Airflow Fan rotation (no/low RPM)	mssg 1 (active) / mssg 2 (data)	Disable all cooking functions for cavity
4d31	Reverse Airflow Fan rotation (on when should be off)	No change	No action
4d32	Reverse Airflow Fan rotation (on when should be off)	No change	No action
4d41	Reverse Airflow Fan rotation (high RPM)	mssg 1 (active) / mssg 2 (data)	Disable all cooking functions for cavity
4d42	Reverse Airflow Fan rotation (high RPM)	mssg 1 (active) / mssg 2 (data)	Disable all cooking functions for cavity
4d51	Door switch not open or closed	mssg 1 (active) / mssg 2 (data)	Disable Convect, Clean, and lockout functions [4, 5] Turn off light and disable light from door switch
4d52	Door switch not open or closed	mssg 1 (active) / mssg 2 (data)	Disable Convect, Clean, and lockout functions [4, 5] Turn off light and disable light from door switch
9d11	Lock switch not closed	mssg 1 (active) / mssg 2 (data)	Disable Clean and lockout functions [4]
9d12	Lock switch not closed	mssg 1 (active) / mssg 2 (data)	Disable Clean and lockout functions [4]
9d21	Unlock switch not closed	mssg 1 (active) / mssg 2 (data)	Disable Clean and lockout functions [4]
9d22	Unlock switch not closed	mssg 1 (active) / mssg 2 (data)	Disable Clean and lockout functions [4]
9d31	Lock and unlock switches both closed	mssg 1 (active) / mssg 2 (data)	Disable Clean and lockout functions [4]
9d32	Lock and unlock switches both closed	mssg 1 (active) / mssg 2 (data)	Disable Clean and lockout functions [4]

Message 1:	Message 2:	Message 3:
FAULT DETECTED PRESS ENTER TO TRY AGAIN	FEATURE NOT AVAILABLE PRESS HELP	FAULT DETECTED DISABLE POWER TO CLEAR

NOTES:

[1] "Action Taken" applies as long as the condition exists. If the condition goes away, the control recovers.

[2] If there is a cook function or timer active, the function continues. The user cannot edit the function, and [Cancel] will cancel the cook mode.

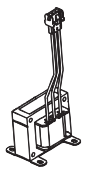
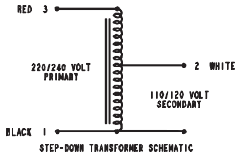
[3] Flash rate: 0.2 seconds on, 0.1 second off. Pressing any key will clear the display until the fault clears and is re-triggered.

[4] "Action Taken" applies until there is a POR (Power On Reset ["hard reset"]).

[5] If the control believes the door is locked, it will attempt to unlock it when the function cancels and the cavity temperature cools.

[6] Special conditions for latch faults (9dxx):

- A known good **unlock** position is defined as when the unlock switch reads closed and lock switch reads open.
- A known good **lock** position is defined as when the unlock switch reads open and lock switch reads closed.
- A **faulted switch** means the switch input is reading an invalid state, neither open nor closed.
- Once a latch fault occurs, latch movement is disabled until there is a POR. An error tone will sound if a function requiring a faulted latch is attempted.
- If at POR, the latch is not at a known good unlock position:
    - If the latch is at a good lock position, it will attempt to unlock when the RTD (Resistance Temperature Device) temperature is below 400°F.
    - If the latch is not at a good lock position, the control will fault.
- If a latch fault occurs while the RTD is above the lock temperature, the latch will not try to move, but the fault is still logged to EEPROM after the first stage of detection.
- The Display column for latch faults applies 1) If the latch was moving when the fault occurred; 2) If the latch is already in a known locked state when the fault occurs.
    - LOCK flashes after a fault is detected and until the unlocked position is achieved. The unlock position may be identified by a successful unlock switch closure, or as the result of timing when the unlock switch is not functioning properly.
- If the last known good position was unlock (e.g. baking, or idle) and a latch fault occurs, the motor is never moved. The fault is logged to EEPROM and is not seen by the user.
- The detection for latch faults is in two stages. The first stage is to let the control recover without moving the latch. After this:
    - If the latch was previously at a known good unlock position, the latch will not move and the control will fault.
    - If the control was previously in a known good lock position:
        - If the RTD is below 400°F, the latch will attempt to recover to it's proper position (up to three revolutions). If it cannot, the control will fault and the latch will move to a calculated unlock position.
        - If the RTD is at or above 400°F, the control will fault. When the RTD cools to below 400°F, the control will attempt to recover to a good unlock position (up to three revolution). If it cannot, the control will fault and the latch will move to a calculated unlock position.
        - **Note:** If the unlock position cannot be found, this may result in a second fault, the first fault occurring when the latch request was locked, and the second when the latch request is unlocked.
    - If the latch is moving when the fault occurs, the control will bypass the first stage of detection and immediately try to find it's proper position. If it cannot, the control will fault and the latch will move to a calculated unlock position.
- Affected DLBs (Double Line Breaks) and loads are disabled during detection.
- If the control is in a known good unlock position and the lock switch becomes faulted:
    - The control will not fault.
    - If a function requiring latch movement is attempted while the lock switch is faulted, the control will sound an error tone and the function will be disabled.
- If the control is in a known good lock position and the unlock switch becomes faulted:
    - The control will not fault.
    - After the function is canceled and unlock is attempted, the control will attempt to unlock the latch according to the procedures in these notes.

	Step-down transformer  STEP-DOWN TRANSFORMER SCHEMATIC	Measure voltage: Primary terminals ..... Secondary terminals	 220 to 240 volts 110 to 120 volts

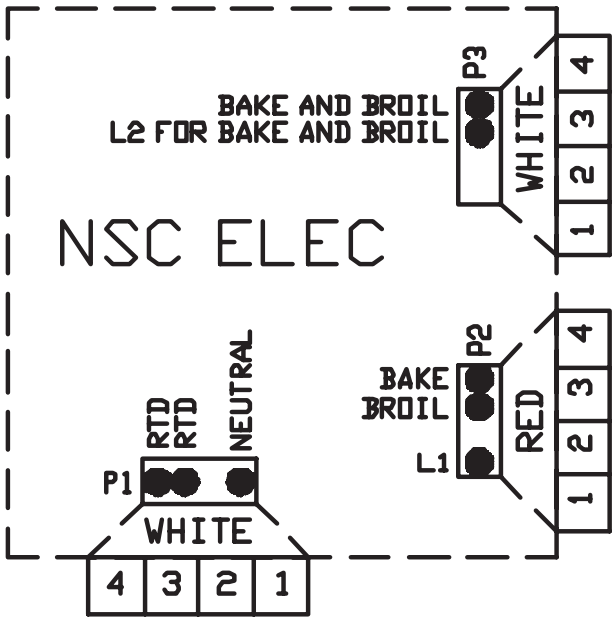
Oven Sensor and Meat Probe Resistances

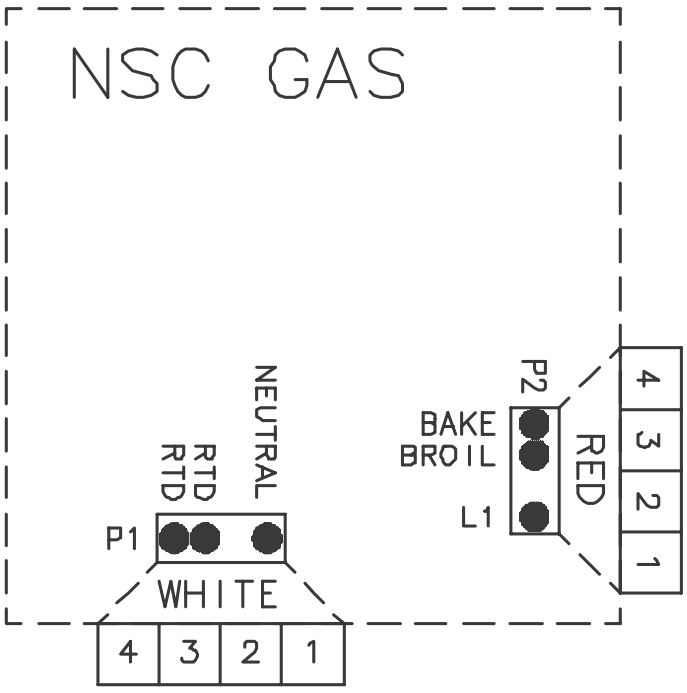
OVEN SENSOR **Sensor Type:** RTD 1000 W platinum **Calibration:** 1654 Ω (350° F/177° C)	
Temperature F (C)	**Resistance (Ohms)**
100 (38)	1143
200 (94)	1350
300 (149)	1553
350 (177)	1654
400 (204)	1753
500 (260)	1949
600 (316)	2142
700 (371)	2331
800 (427)	2516
900 (483)	2697
1000 (538)	2874

MEAT PROBE **Type:** NTC Thermistor **Calibration:** 9938 Ω (150° F/65.5° C)	
Temperature F (C)	**Resistance (Ohms)**
32 (0)	163300
68 (20)	62450
95 (35)	32660
122 (50)	18020
158 (70)	8760
185 (85)	5360
212 (100)	3400

NSC (NON-SELF CLEANING) CONTROLS

Pin Out Locations





Hidden Functions

Illustration	Component	Test Procedure	Results
NSC Controlled	Oven temperature adjustment	Press ***Bake*** pad. Enter ***550*** on the digit-pad. Immediately press and hold ***Bake*** pad for 3 to 5 seconds. Oven can be adjusted from -35 to +35 degrees in 5-degree increments by pressing ***More +*** or ***Less -*** pads. To avoid over adjusting the oven, move temperature 5 degrees each time. Wait 4 seconds for the data entry timer to expire to accept the change. Temperature adjustment will be retained even through a power failure.	While increasing or decreasing oven temperature, this does not affect self-cleaning temperature.
NSC Controlled	Keypad Lockout	Press and hold ***Cancel*** and ***Timer*** pads for 3 to 5 seconds. Press ***More +*** or ***Less -*** pads to change.	This mode disables keypad input to deter against accidental keypad entries.
NSC Controlled	Temperature display	Press and hold ***Cancel*** and ***Bake*** pads for 3 to 5 seconds. Press ***More +*** or ***Less -*** pads to change.	This mode enables the user to indicate °F or °C on the display.
NSC Controlled	Sabbath Mode	Hold ***Clock*** pad for 3 to 5 seconds to activate Sabbath mode. Hold ***Clock*** pad for 3 to 5 seconds to disable Sabbath mode. Desired bake function must be initiated before entering Sabbath mode.	"SAb" will be displayed and flash for 5 seconds then remain on until timed-out or cancelled. The status "SAB" is NOT fault code 5A6. All pad inputs are disabled except for **CANCEL** and **CLOCK** pads. This mode disables the normal 12 hour shutoff to allow operation of the bake mode for a maximum of 72 hours. The oven light is not disabled.
NSC Controlled	Twelve Hour Off	Control will automatically cancel any cooking operation and remove all relay drives 12 hours after the last pad touch.	See Sabbath mode to disable.
NSC Controlled	Diagnostic Code Display	Press and hold ***More +*** pad for 3 to 5 seconds when powering up the unit. Cycle through the codes using the ***More +*** or ***Less -*** pads.	The last 5 diagnostic codes will be stored in the non-volatile memory. See **"Description of Error Codes"** page 2-1 for explanation.
NSC Controlled	One–Watt Standby Mode	Press and hold ***Cancel*** and ***Less -*** pads for 3 to 5 seconds.	After 15 minutes in idle, the control will automatically enter this mode. The LED display remains active during this mode.

"Quick Test" Mode for Non–Self Clean Control

Follow procedure below to use the quick test mode. Entries must be made within 32 seconds of each other or the control will exit the quick test mode.

1. **Press and hold *Cancel*** and ***Broil*** pads for 3 to 5 seconds within 5 minutes of power-up.
2. Once the control has entered the "Quick Test" mode, release both pads.
3. Press each of the following pads indicated in the table below.

NOTE: First time one of the following pads are pressed it will activate the response. The second time the pad is pressed it will deactivate the response.

NOTE: This mode must be entered within the first 5 minutes after power up.

NOTE: If the temperature sensor is greater than 400° F or if the temperature sensor reaches 400° F while under test, the Quick Test mode will be disabled.

Display will indicate the following:

Key	Operation
[Bake]	**Bake** relay activated
[Broil]	**Broil** relay activated
[Timer]	**DLB** relay activated
[Clock]	Alternate between **ODD LED SEGMENTS** and **EVEN LED SEGMENTS** on each keypress
[More +]	**EEPROM** version number
[Less –]	**Code** version number
[Cancel]	End Factory Test Mode

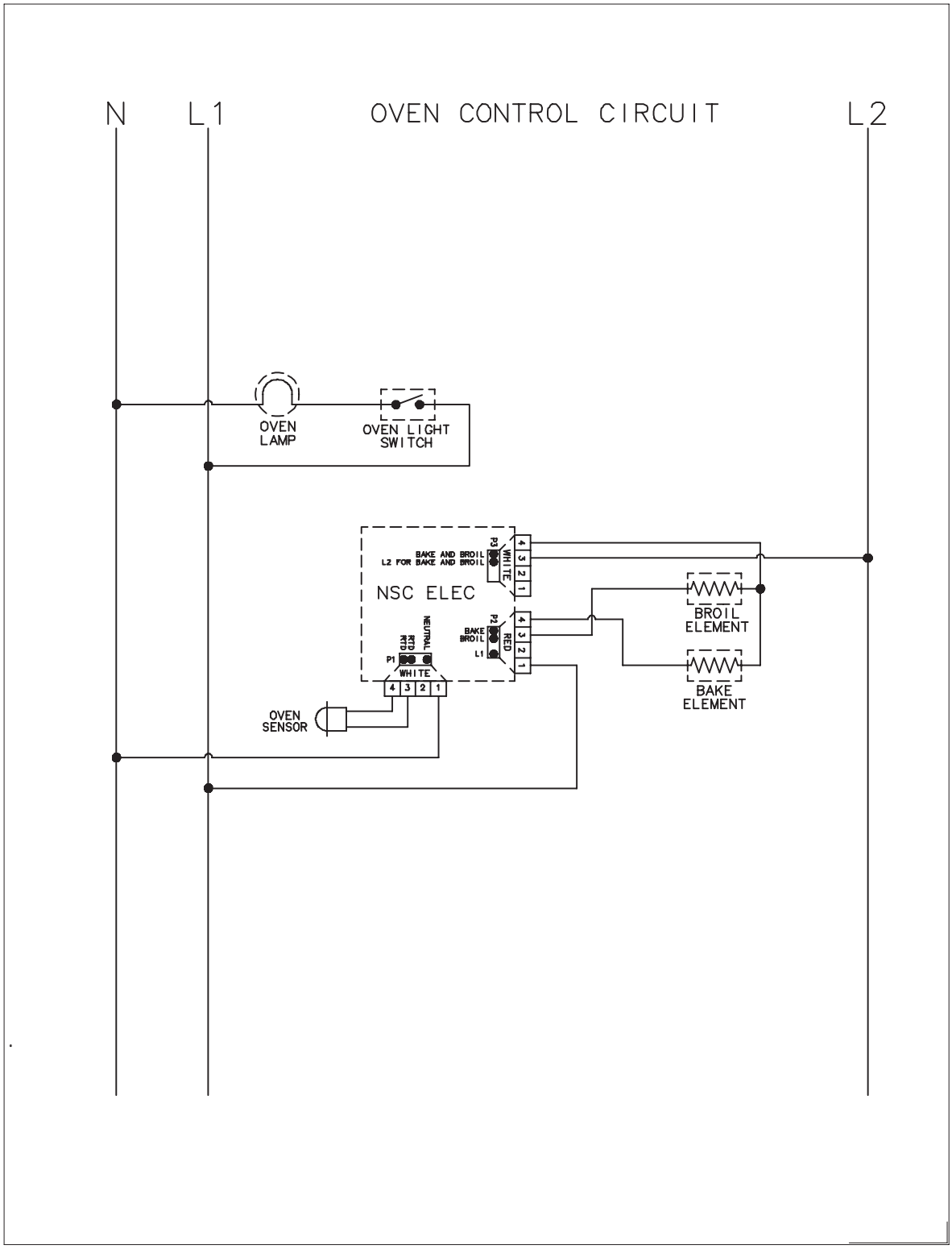
Enter Diagnostic Code Display Mode by pressing *More +* for 3 to 5 seconds within 60 seconds of powering up the control.

The control will store the last 5 error codes.

Wiring Diagram and Schematic 16023529 16026465

⚠ WARNING

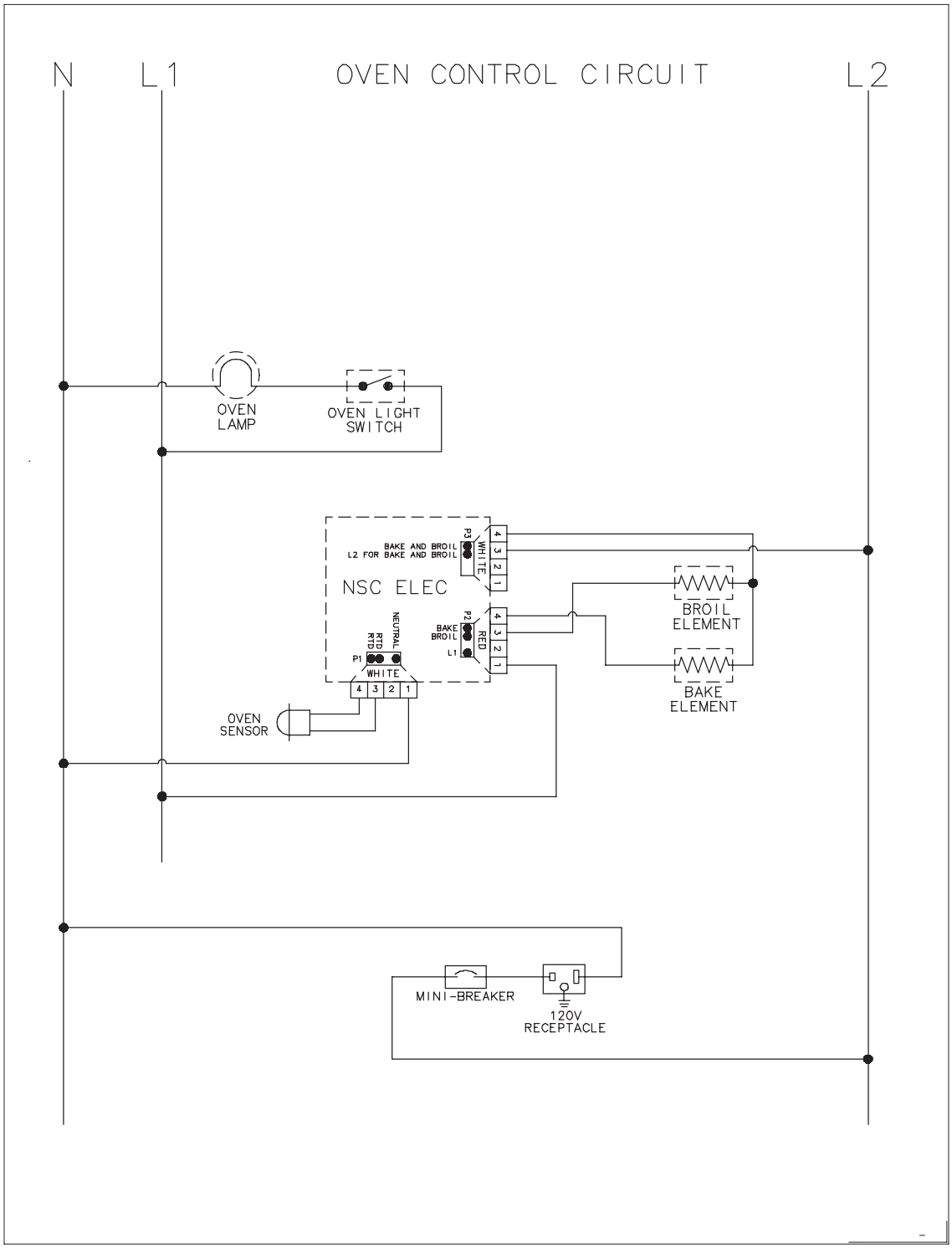
To avoid risk of electrical shock, personal injury or death; disconnect power to oven before servicing, unless testing requires power.



Wiring Diagram and Schematic 16023535 16026468

⚠ WARNING

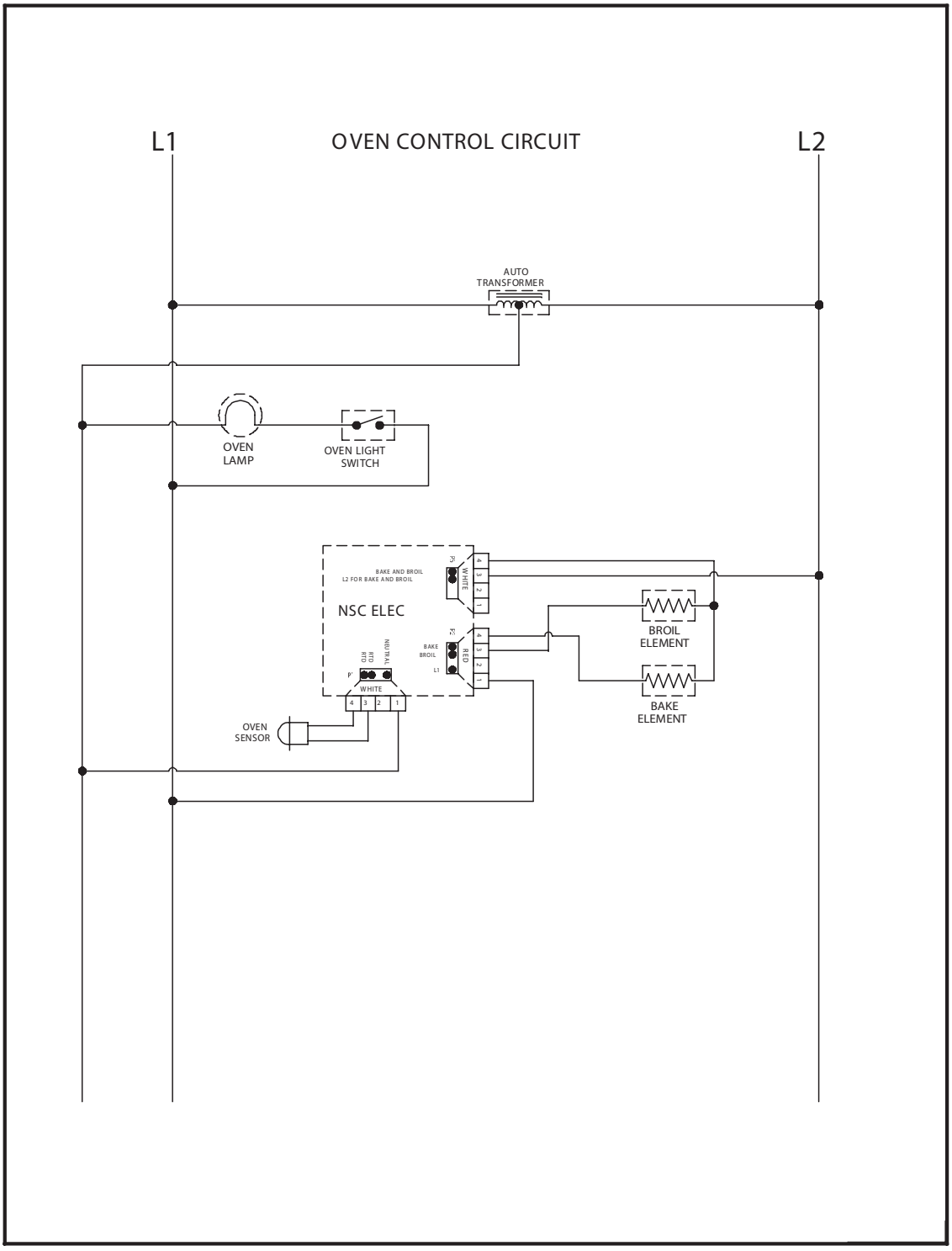
To avoid risk of electrical shock, personal injury or death; disconnect power to oven before servicing, unless testing requires power.



Wiring Diagram and Schematic 16026300

WARNING

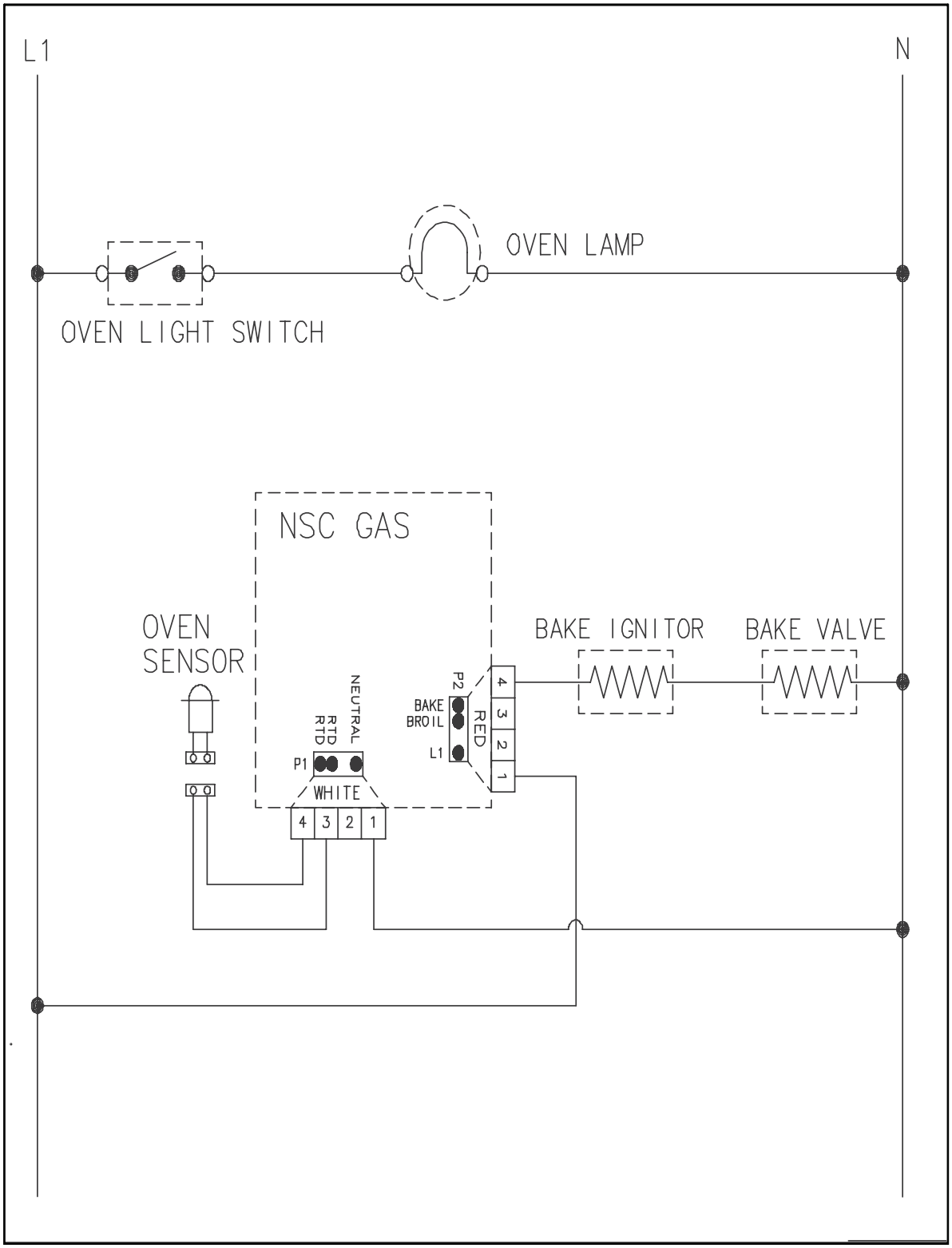
To avoid risk of electrical shock, personal injury or death; disconnect power to range before servicing, unless testing requires power.



Wiring Diagram and Schematic 16026685 16026763 16026765

⚠ WARNING

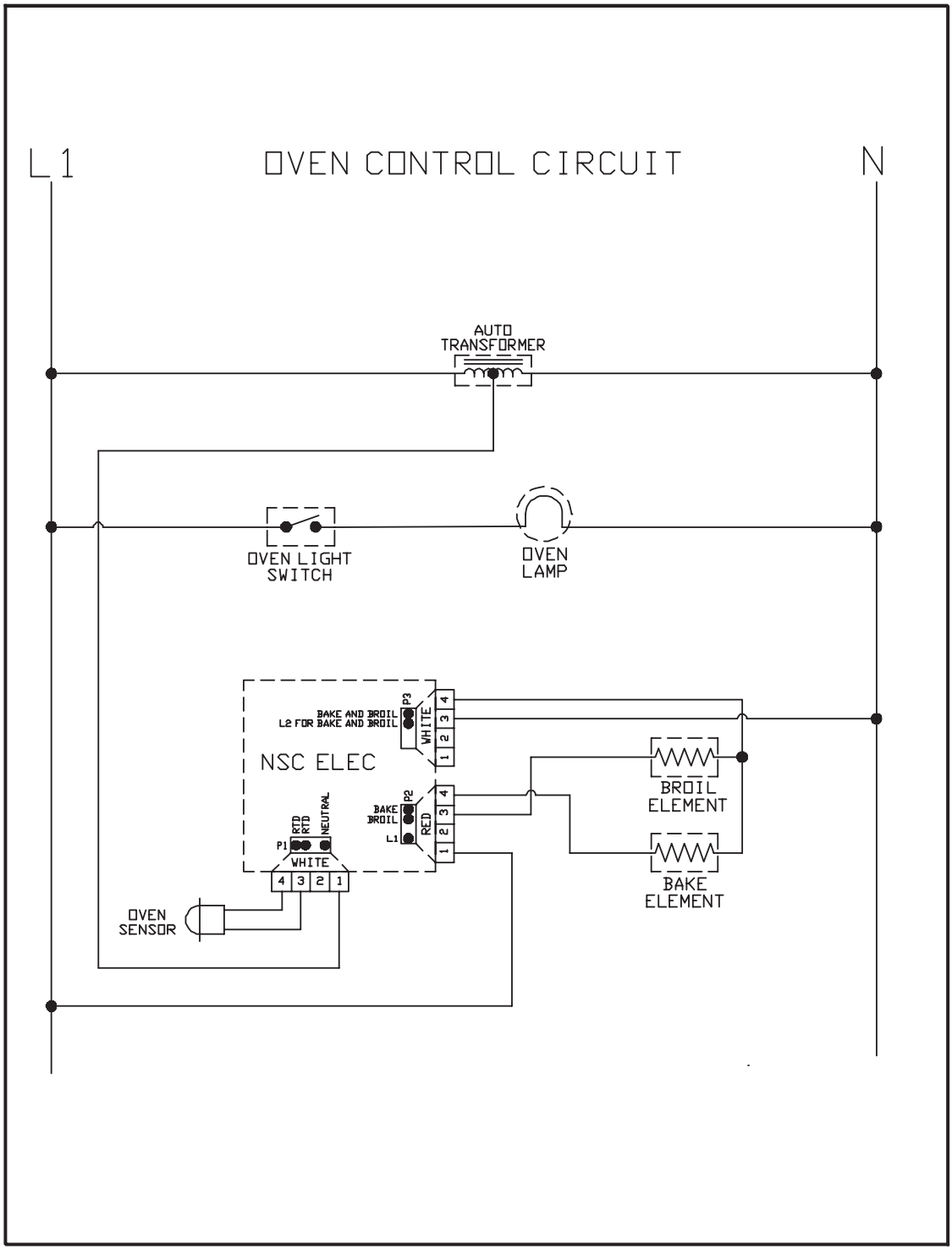
To avoid risk of electrical shock, personal injury, or death, disconnect power and gas to range before servicing, unless testing requires power and/or gas.



Wiring Diagram and Schematic 16026838

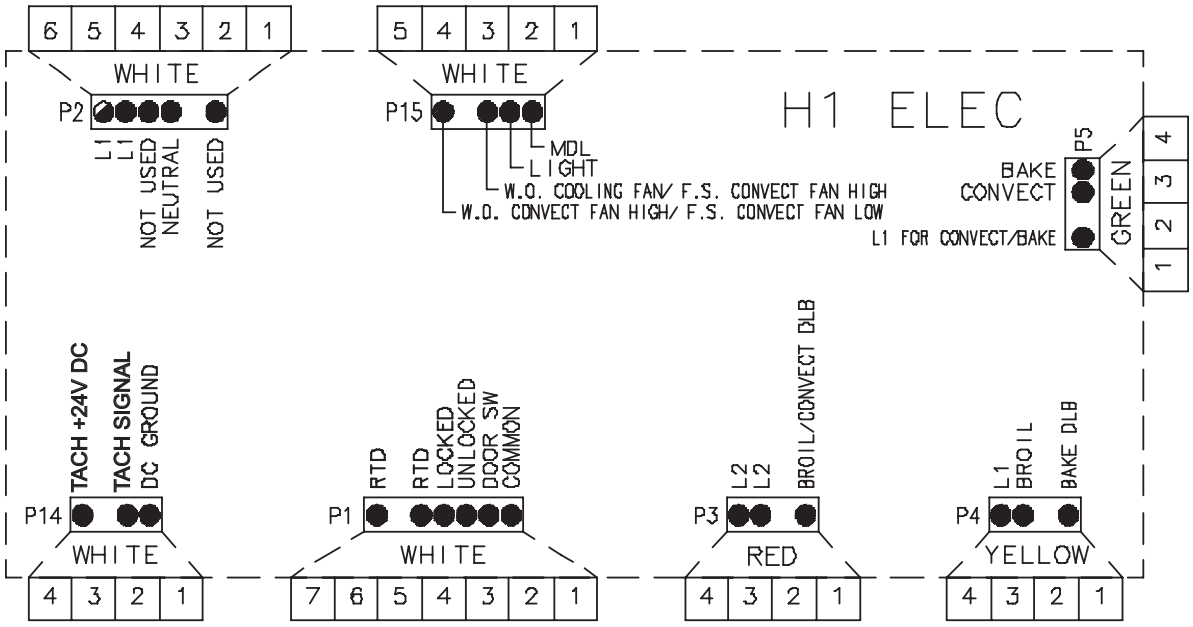
⚠ WARNING

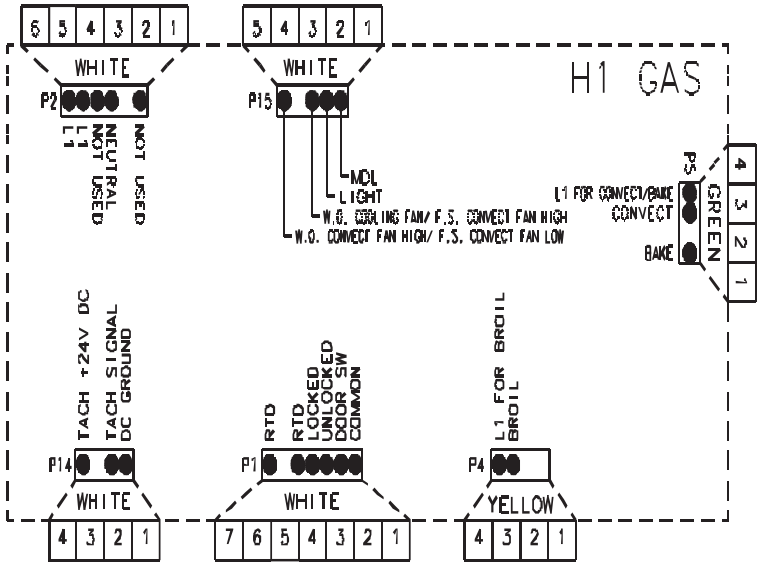
To avoid risk of electrical shock, personal injury or death; disconnect power to range before servicing, unless testing requires power.

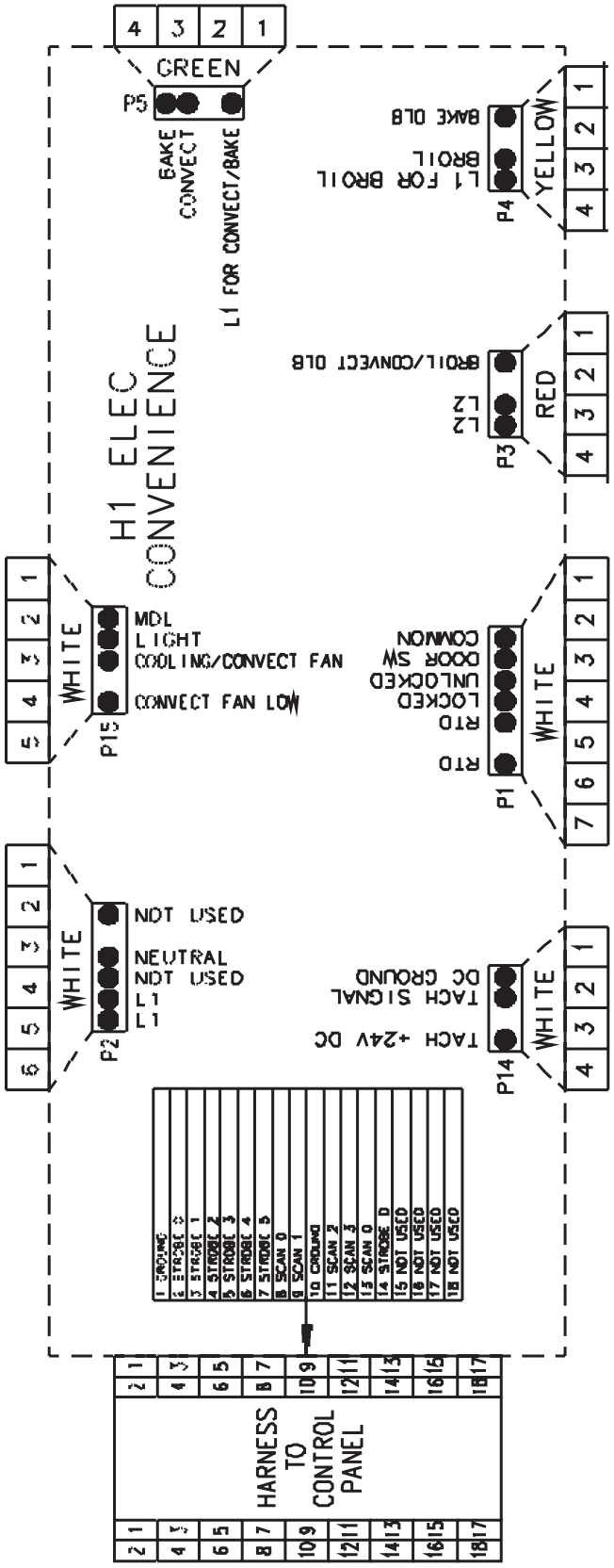


H1 CONTROLS

Pin Out Locations





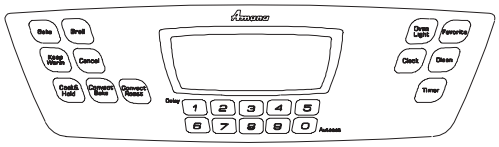

H1 ELEC
CONVENIENCE
P5
GREEN
BAKE
CONVECT
L1 FOR CONVECT/BAKE
P4
YELLOW
BAKE OLB
L1 FOR BROIL
BROIL
P3
RED
BROIL/CONVECT OLB
L2
L2
P15
WHITE
MDL
LIGHT
COOLING/CONVECT FAN
CONVECT FAN LOW
P1
WHITE
RTO
RTO
LOCKED
UNLOCKED
DOOR SW
COMMON
P2
WHITE
NOT USED
NEUTRAL
NOT USED
L1
L1
P14
WHITE
TACH +24V DC
TACH SIGNAL
DC GROUND
1 GROUND
2 STROBE 0
3 STROBE 1
4 STROBE 2
5 STROBE 3
6 STROBE 4
7 STROBE 5
8 SCAN 0
9 SCAN 1
10 GROUND
11 SCAN 2
12 SCAN 3
13 SCAN 0
14 STROBE D
15 NOT USED
16 NOT USED
17 NOT USED
18 NOT USED
HARNESS
TO
CONTROL
PANEL

Hidden Functions

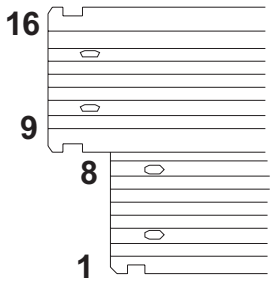
Illustration	Component	Test Procedure	Results
H1 Controlled	Oven temperature adjustment	Press ***BAKE*** pad. Enter ***550*** on the digit-pad. Immediately press and hold ***BAKE*** pad for 3 seconds. Oven can be adjusted from -35 to +35 degrees in 5-degree increments by pressing ***AUTOSET*** pad. To avoid over adjusting the oven, move temperature 5 degrees each time. Wait 4 seconds for the data entry timer to expire to accept the change. Temperature adjustment will be retained even through a power failure.	While increasing or decreasing oven temperature, this does not affect self-cleaning temperature.
H1 Controlled	Temperature display	Press and hold ***Cancel*** and ***Bake*** pads for 3 seconds.	This mode enables the user to indicate °F or °C on the display.
H1 Controlled	Clock Display	Press and hold ***Cancel*** and ***Clock*** pads for 3 seconds.	Allows clock to be toggled On or OFF.
H1 Controlled	24 Hour Clock	Press and hold ***Cancel*** and ***Favorite*** pads for 3 seconds.	Allows the time on the clock to be toggled from 12 hour or 24 hour display.
H1 Controlled	Factory Default	Press and hold ***Cancel*** and ***Keep Warm*** pads for 3 seconds.	Allows the clock to be reset to factory settings.
H1 Controlled	Twelve hour off	Control will automatically cancel any cooking operation and remove all relay drives 12 hours after the last pad touch.	See Sabbath mode to disable.
H1 Controlled	Sabbath Mode	Hold ***CLOCK*** pad for 3 seconds to activate Sabbath mode. Hold ***CLOCK*** pad for 3 seconds to disable Sabbath mode.	"SAb" will be displayed and flash for 5 seconds. Display will go back to time of day. All pad inputs are disabled except for CANCEL and CLOCK pads. This mode disables the normal 12 hour shutoff to allow operation of the bake mode for a maximum of 72 hours.
H1 Controlled	Child lock out	Press and hold ***Cancel*** and ***Cook & Hold*** pads for 3 seconds. **"OFF"** will display where the temperature normally appears. "**LOCK**" will display flashing while door is locking. To reactivate the control, press and hold ***Cancel*** and ***Cook & Hold*** pads for 3 seconds.	This is a safety feature that can be used to prevent children from accidentally programming the oven. It disables the electronic oven control. Child lockout features must be reset after a power failure.
H1 Controlled	Diagnostic Code Display	See "Quick Test Mode". Cycle through the codes using the number pads 1 through 5.	The last 5 diagnostic codes will be stored in the non-volatile memory. See **"Description of Error Codes"** page 2-1 for explanation.

Testing the User Interface

Amana Matrix
Control Panel Assembly

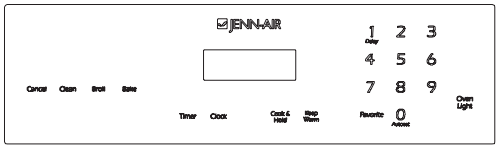


Continuity is indicated as follows:
1000 – 6600 Ω for Cancel pad
1000 – 15000 Ω for All other pads

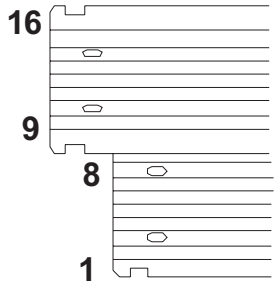


Pad	Trace	Measurement
1	5 & 10	Continuity
2	4 & 11	Continuity
3	4 & 12	Continuity
4	4 & 13	Continuity
5	5 & 15	Continuity
6	4 & 10	Continuity
7	11 & 12	Continuity
8	12 & 13	Continuity
9	13 & 15	Continuity
0	4 & 15	Continuity
Cancel	1 & 3	Continuity
Clock	5 & 13	Continuity
Cook & Hold	10 & 11	Continuity
Broil	5 & 12	Continuity
Bake	5 & 7	Continuity
Convect	5 & 11	Continuity
Clean	7 & 13	Continuity
Keep Warm	4 & 5	Continuity
Favorite	7 &15	Continuity
Timer	4 & 7	Continuity
Oven Light	7 &12	Continuity
Convect Roast	7 & 11	Continuity

Jenn-Air Matrix
Control Panel Assembly

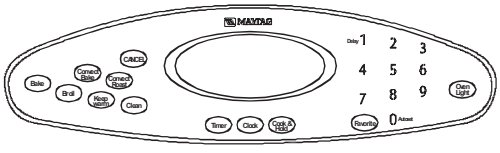


Continuity is indicated as follows:
1000 – 6600 Ω for Cancel pad
1000 – 15000 Ω for All other pads

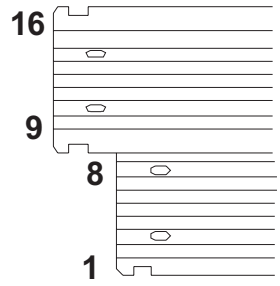


Pad	Trace	Measurement
1	13 & 15	Continuity
2	12 & 15	Continuity
3	10 & 15	Continuity
4	7 & 13	Continuity
5	12 & 13	Continuity
6	10 & 12	Continuity
7	4 & 13	Continuity
8	4 & 12	Continuity
9	5 & 10	Continuity
0	5 & 12	Continuity
Cancel	1 & 2/3	Continuity
Clock	4 & 14	Continuity
Cook & Hold	5 & 14	Continuity
Broil	13 & 14	Continuity
Bake	7 & 15	Continuity
Clean	5 & 7	Continuity
Keep Warm	14 & 15	Continuity
Favorite	5 & 13	Continuity
Timer	4 & 5	Continuity
Oven Light	4 & 10	Continuity

Maytag Matrix
Control Panel Assembly



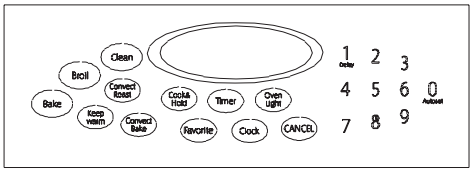
Continuity is indicated as follows:
1000 – 6600 Ω for Cancel pad
1000 – 15000 Ω for All other pads



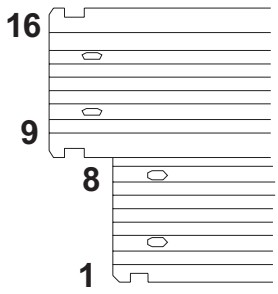
Pad	Trace	Measurement
1	13 & 15	Continuity
2	12 & 13	Continuity
3	12 & 15	Continuity
4	4 & 11	Continuity
5	4 & 12	Continuity
6	4 & 10	Continuity
7	5 & 11	Continuity
8	5 & 13	Continuity
9	5 & 10	Continuity
0	5 & 12	Continuity
Cancel	1 & 3	Continuity
Clock	7 & 13	Continuity
Cook & Hold	11 & 13	Continuity
Broil	11 & 12	Continuity
Bake	10 & 11	Continuity
Convect Bake	11 & 15	Continuity
Convect Roast	5 & 7	Continuity
Clean	4 & 13	Continuity
Keep Warm	7 & 11	Continuity
Favorite	4 & 5	Continuity
Timer	4 & 7	Continuity
Oven Light	10 & 12	Continuity

Testing the User Interface

Matrix
Control Panel Assembly



Continuity is indicated as follows:
1000 – 6600 Ω for Cancel pad
1000 – 15000 Ω for All other pads



Pad	Trace	Measurement
1	13 & 15	Continuity
2	12 & 13	Continuity
3	12 & 15	Continuity
4	4 & 11	Continuity
5	4 & 12	Continuity
6	4 & 10	Continuity
7	5 & 13	Continuity
8	5 & 12	Continuity
9	5 & 10	Continuity
0	10 & 12	Continuity
Cancel	1 & 2	Continuity
Clock	4 & 5	Continuity
Cook & Hold	4 & 7	Continuity
Broil	5 & 7	Continuity
Bake	10 & 11	Continuity
CV Bake	4 & 13	Continuity
CV Roast	7 & 11	Continuity
Clean	7 & 15	Continuity
Keep Warm	11 & 12	Continuity
Favorites	13 & 14	Continuity
Timer	5 & 11	Continuity
Light	7 & 13	Continuity

"Quick Test" Mode for Electronic Range Control (Convection Model)

Follow procedure below to use the quick test mode. Entries must be made within 32 seconds of each other or the control will exit the quick test mode.

1. **Press and hold** *CANCEL* and *BROIL* pads for 3 seconds.
2. Once the control has entered the "Quick Test" mode, release both pads.
3. Press each of the following pads indicated in the table below.

NOTE: First time one of following pads are pressed it will activate the response. The second time the pad is pressed it will deactivate the response.

Display will indicate the following:

Pad	Response
BAKE	Bake DLB and Bake relay activated
BROIL	Broil DLB and Broil relay activated
KEEP WARM	Bake DLB and Broil DLB activated
CONVECT BAKE	Convection Fan on high speed
CONVECT ROAST	Cooling Fan activated
CLEAN	MDL relay activated
COOK & HOLD	Displays last diagnostic code
FAVORITE	Displays EEPROM version number
TIMER	Displays main code version number
CLOCK	All display segments illuminated
OVEN LIGHT	Oven light activated
CANCEL	Exit Quick Test mode
1	Even segments on
2	Odd segments on
3	Convection Ring activated; Convection Ring DLB activated
4	Bake relay activated
5	Broil relay activated
6	Convection relay activated
7	N/A
8	N/A
9	N/A
AUTOSET	Steps through last 5 diagnostic codes

Diagnostic Code Display Mode can be activated by **pressing and holding** the *AUTOSET* pad for 3 seconds at power-up. **Diagnostic Code Display Mode can only be started while powering up the control.**

"Quick Test" Mode for Electronic Range Control

Follow procedure below to use the quick test mode. The control will automatically exit quick test mode 10 seconds after it exits the last test function selected.

1. **Press and hold** *CANCEL* and *TOAST* pads for 3 seconds.
2. Once the control has entered the "Quick Test" mode, release both pads.
3. Press each of the following pads indicated in the table below.

NOTE: First time one of following pads are pressed it will activate the response. The second time the pad is pressed it will deactivate the response. The chosen function will be active for 3 seconds.

Display will indicate the following:

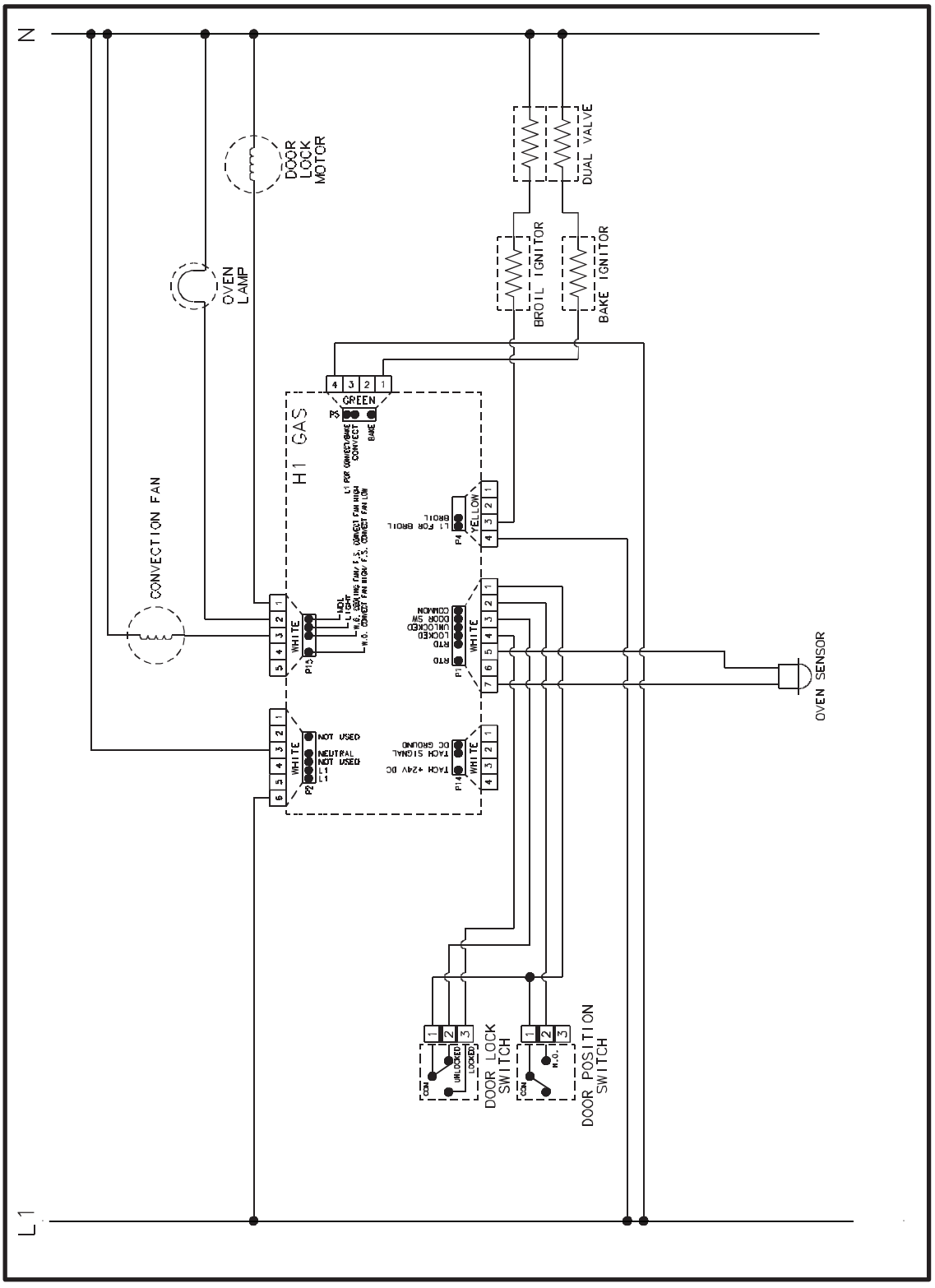
Pad	Response
BAKE	Bake, Bake DLB and Broil DLB relays activated
BROIL	Broil, Bake DLB and Broil DLB relays activated
KEEP WARM	Bake DLB and Broil DLB relays activated
CLEAN	MDL relay activated
COOK & HOLD	Displays last diagnostic code
FAVORITE	Displays EEPROM version number
TIMER	Displays main code version number
CLOCK	All display segments illuminated
OVEN LIGHT	Oven light activated
CANCEL	Exit Quick Test mode
DELAY	Display last diagnostic code
AUTOSET	Steps through last 5 diagnostic codes
0	N/A
1	Even segments on
2	Odd segments on
3	Bake DLB and Broil DLB relays activated
4	N/A
5	N/A
6	Cooling Fan relay activated
7	N/A
8	N/A
9	N/A

Diagnostic Code Display Mode can be activated by **pressing and holding** the *AUTOSET* pad for 3 seconds at power-up. **Diagnostic Code Display Mode can only be started while powering up the control.**

Wiring Diagram and Schematic 16022501 16022502

WARNING

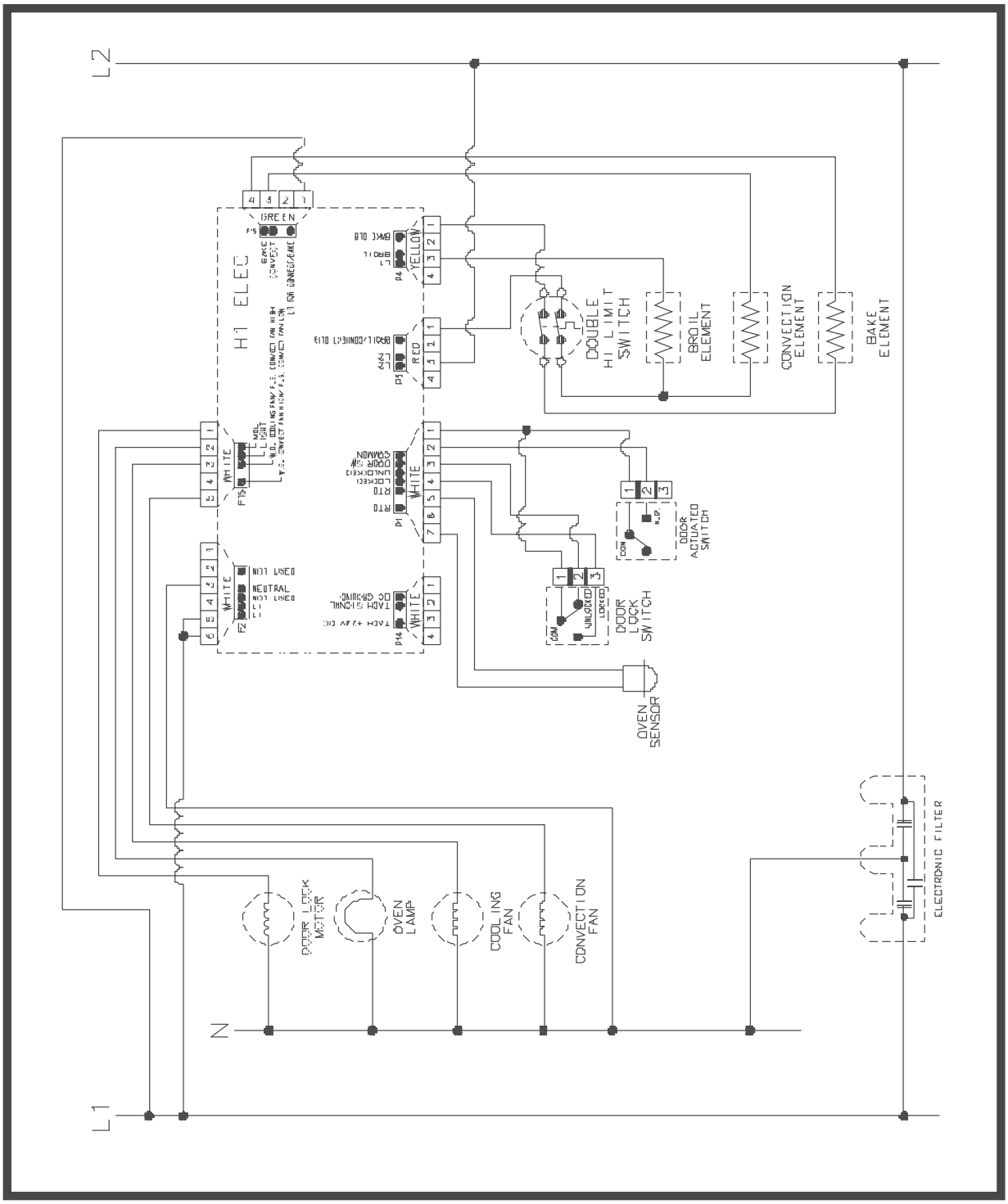
To avoid risk of electrical shock, personal injury or death; disconnect power to oven before servicing, unless testing requires power.



Wiring Diagram and Schematic 16026545 16022507

WARNING

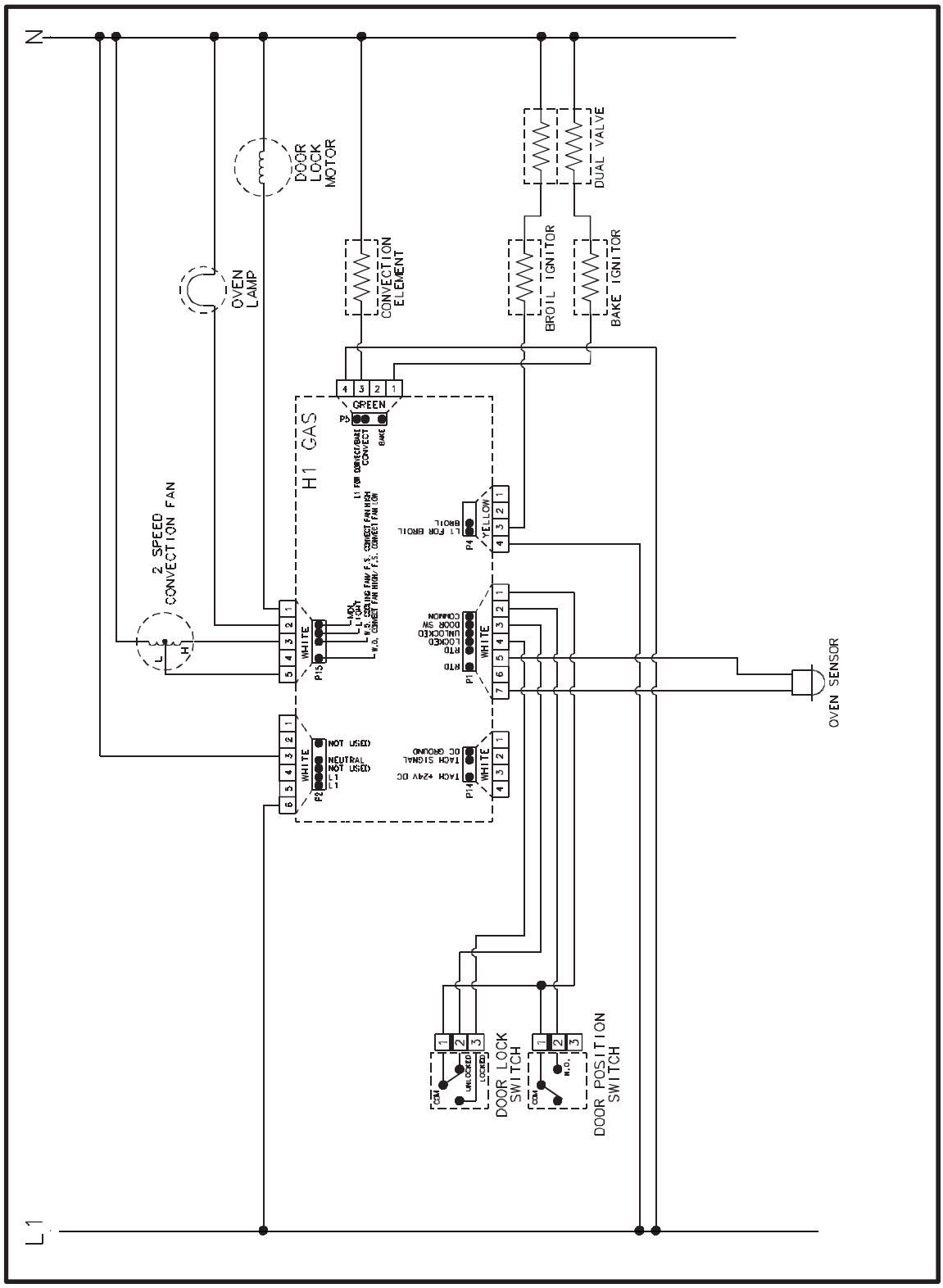
To avoid risk of electrical shock, personal injury or death: disconnect power to oven before servicing, unless testing requires power.



Wiring Diagram and Schematic 16022503

⚠ WARNING

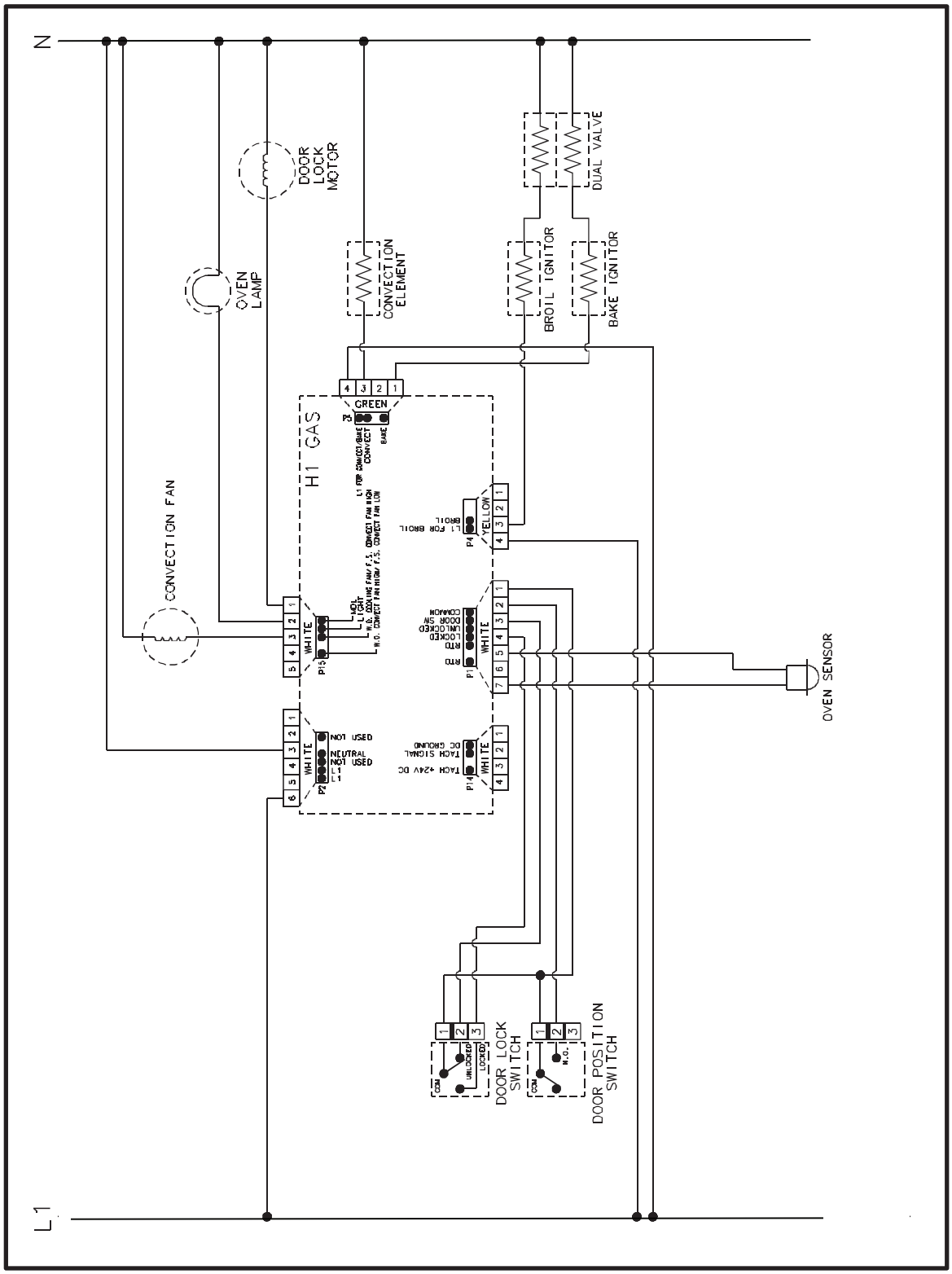
To avoid risk of electrical shock, personal injury or death; disconnect power to oven before servicing, unless testing requires power.



Wiring Diagram and Schematic 16022505

⚠ WARNING

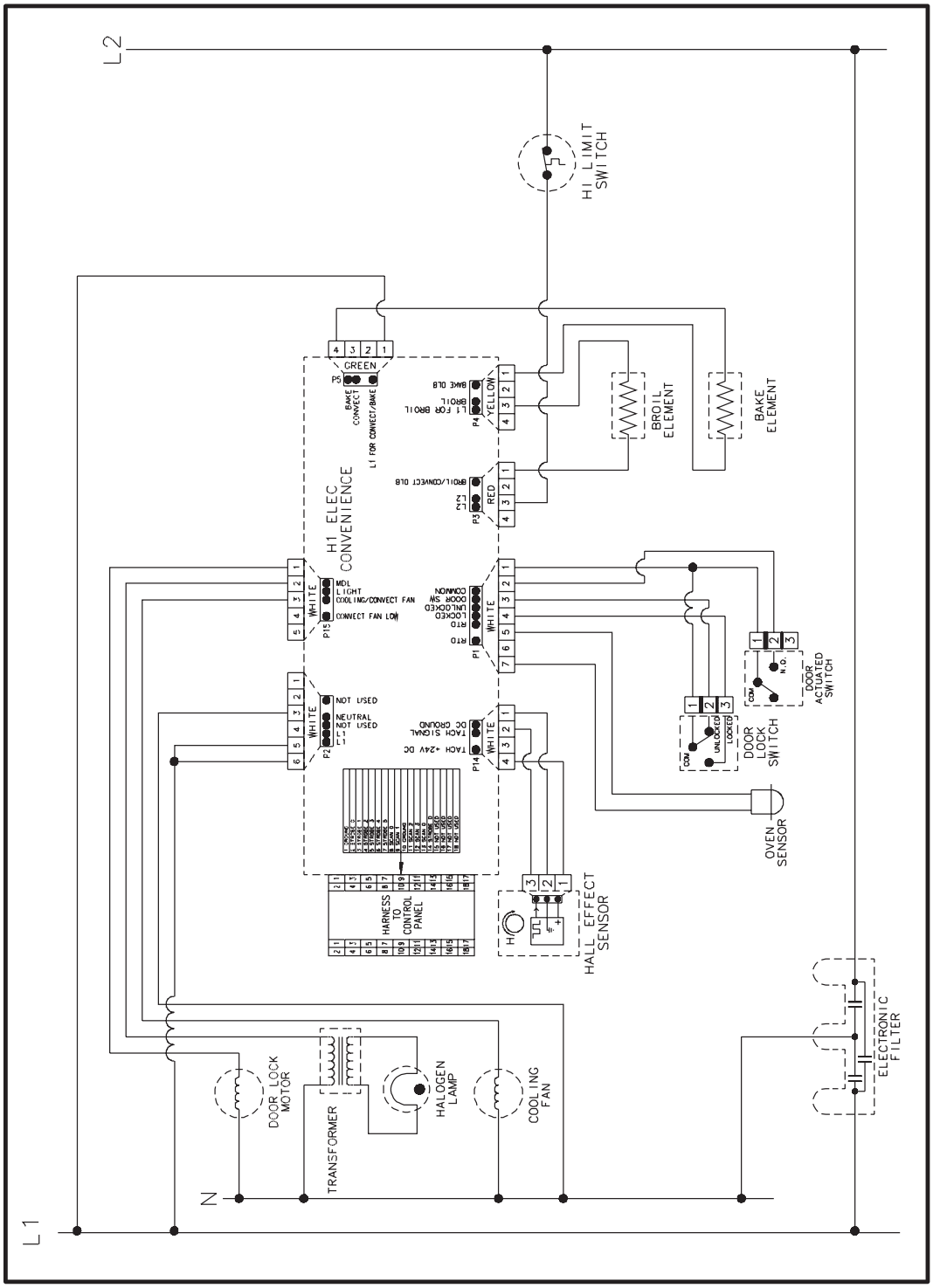
To avoid risk of electrical shock, personal injury or death; disconnect power to oven before servicing, unless testing requires power.



Wiring Diagram and Schematic 16022508

WARNING

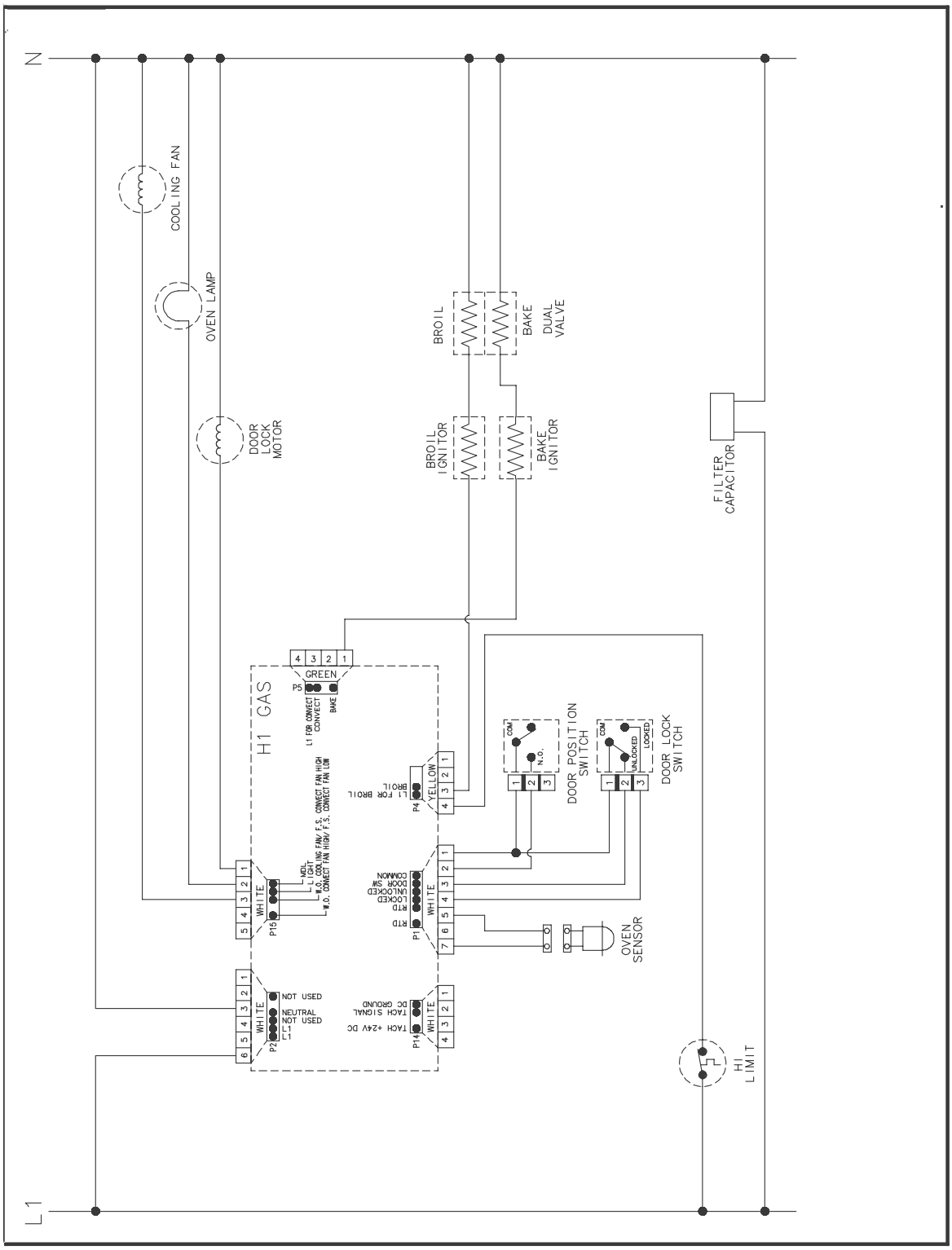
To avoid risk of electrical shock, personal injury or death; disconnect power to oven before servicing, unless testing requires it.



Wiring Diagram and Schematic 16022515

WARNING

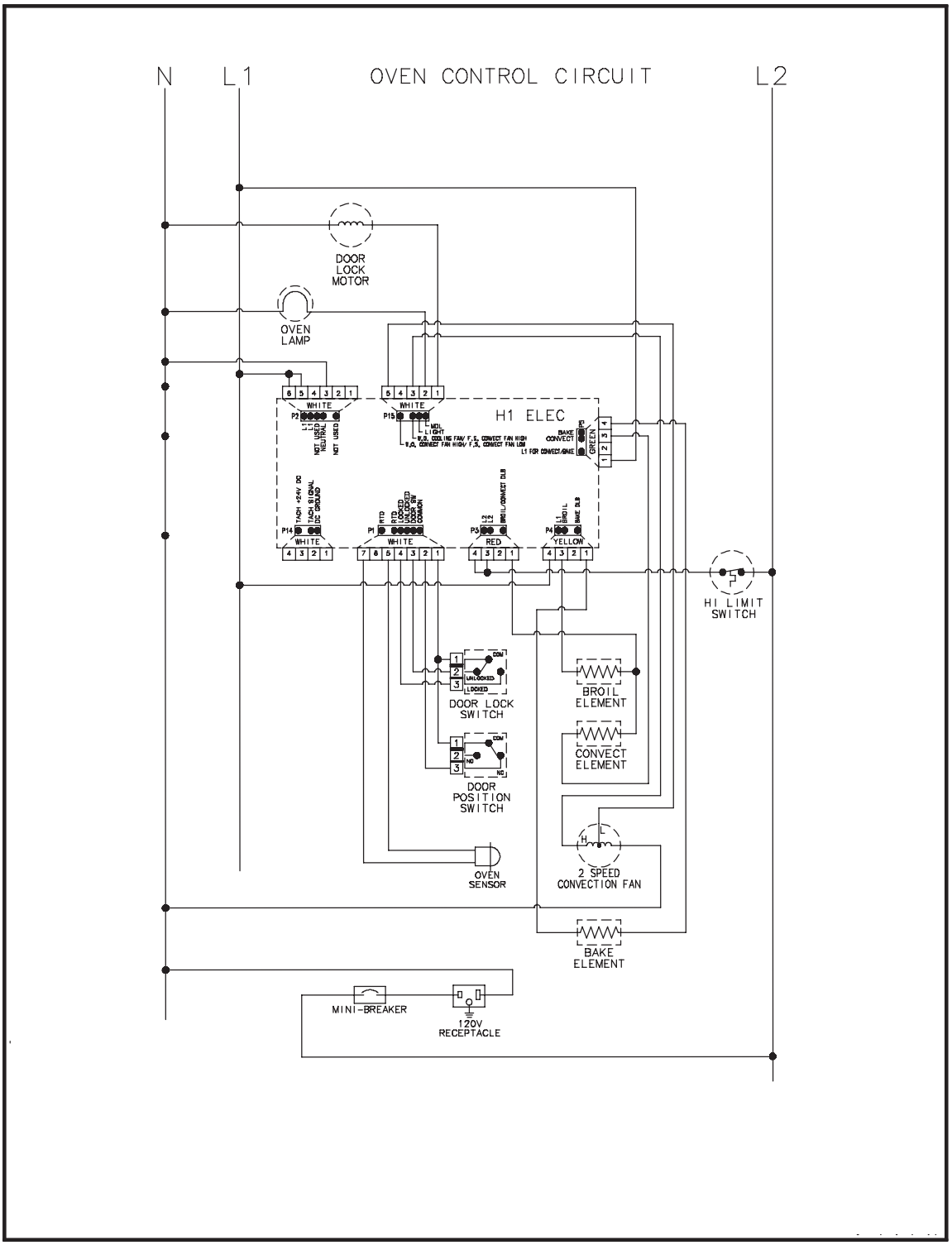
To avoid risk of electrical shock, personal injury or death; disconnect power to oven before servicing, unless testing requires power.



Wiring Diagram and Schematic 16027224 16023321

⚠ WARNING

To avoid risk of electrical shock, personal injury or death; disconnect power to range before servicing, unless testing requires power.

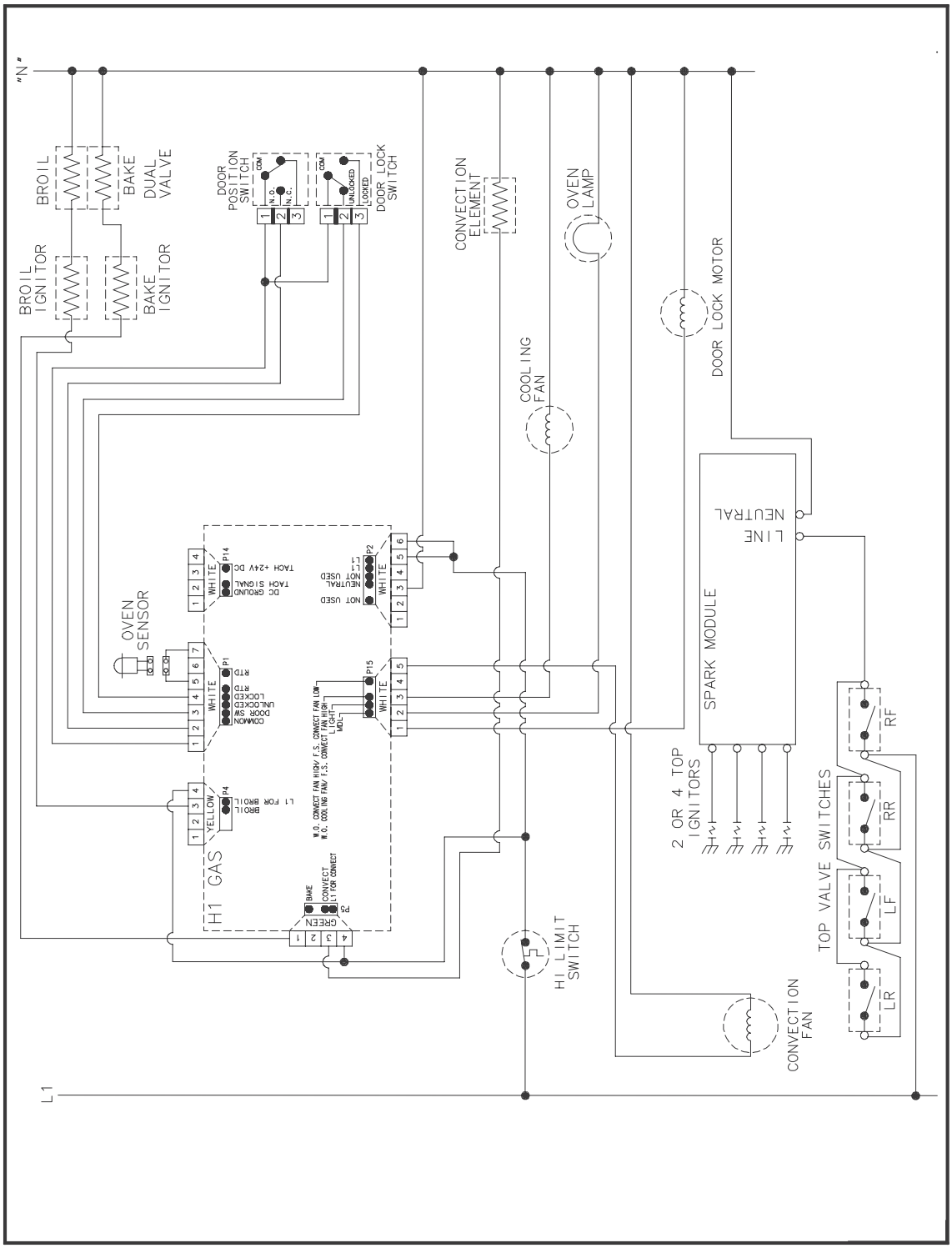


Schematic JER8885QCS Series 14 and later, JER8885QCB Series 15 and later

Wiring Diagram and Schematic 16026291 16026292

⚠ WARNING

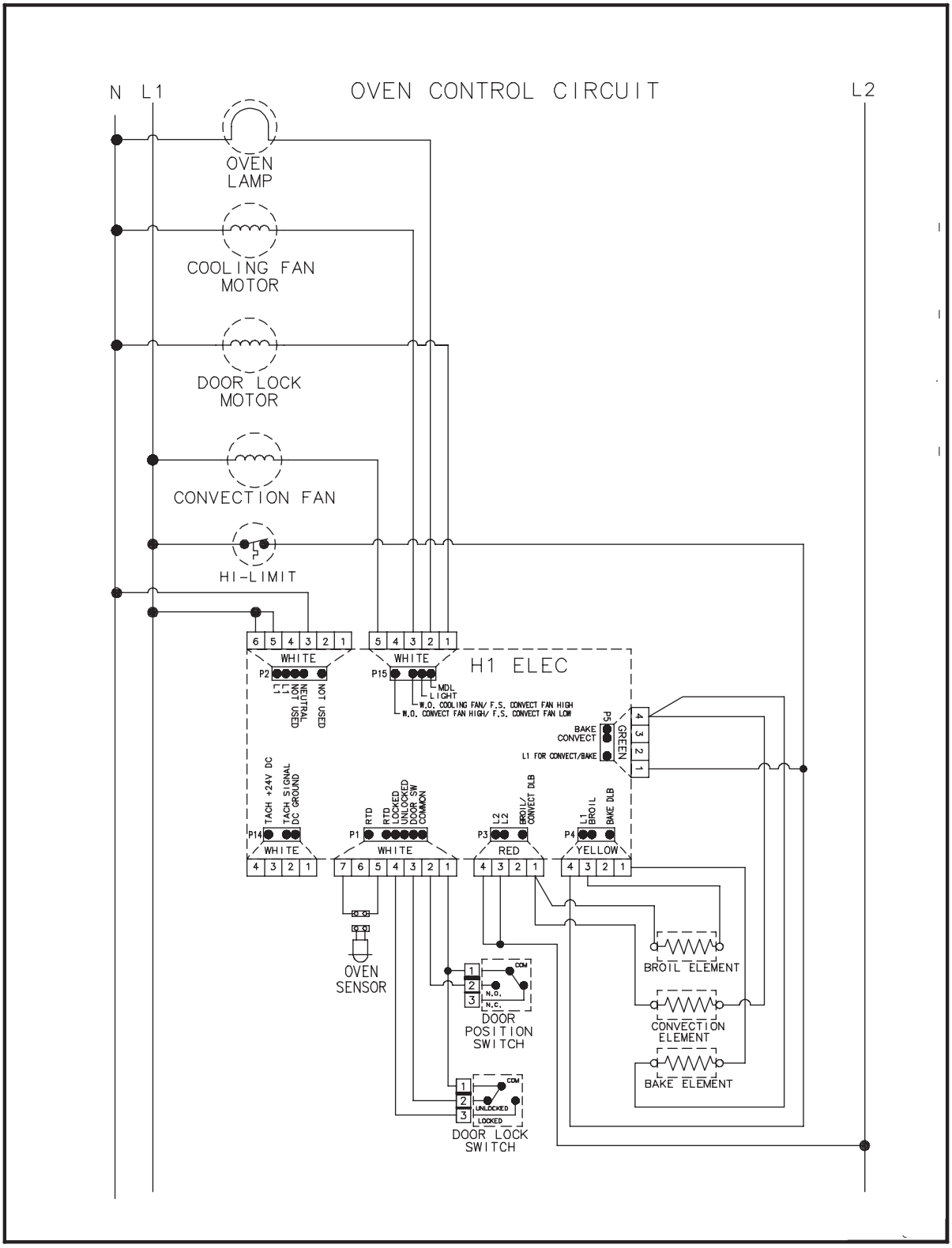
To avoid risk of electrical shock, personal injury or death; disconnect power and gas to range before servicing, unless testing requires power and/or gas.



Wiring Diagram and Schematic 16026296 16026297 16026298

WARNING

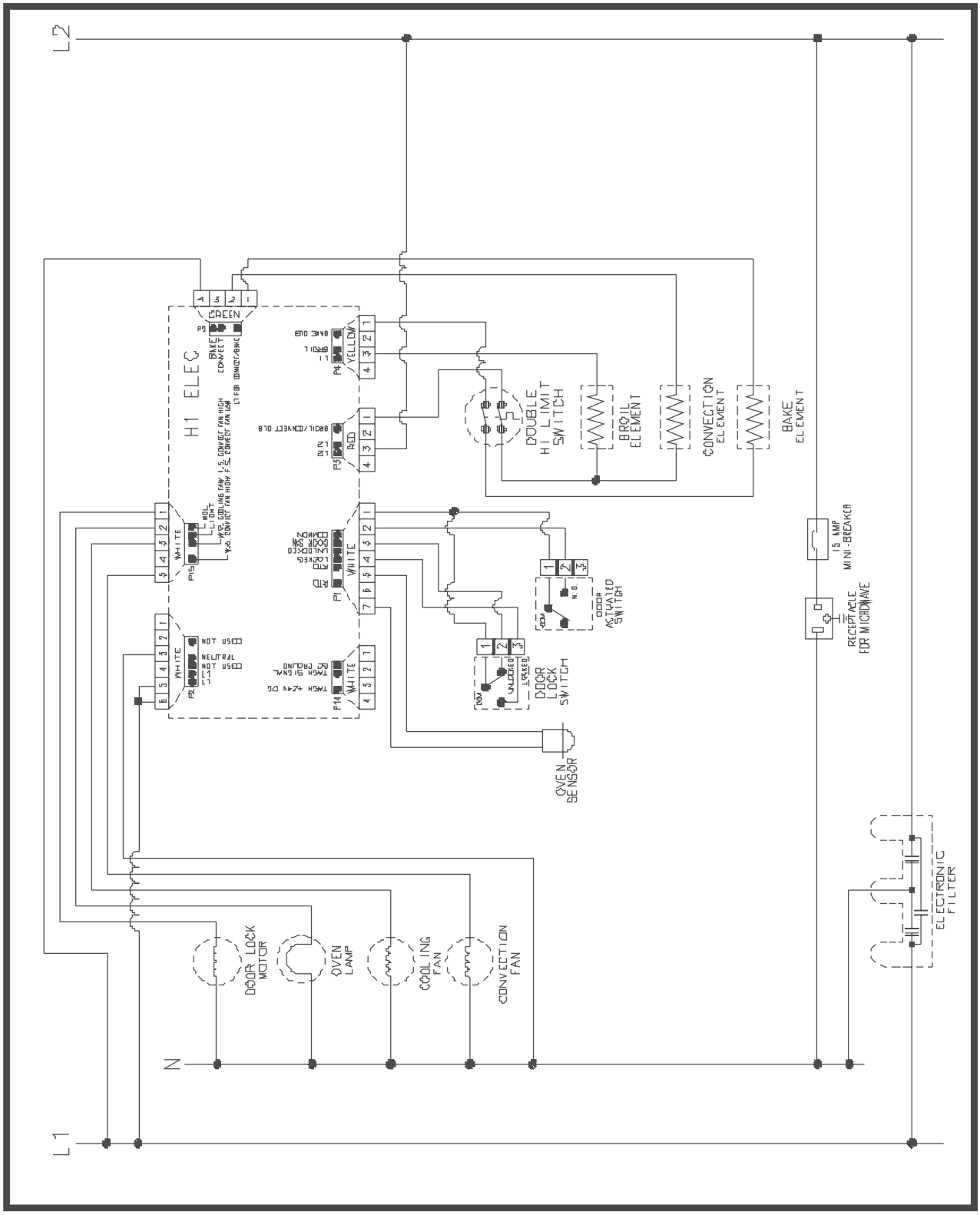
To avoid risk of electrical shock, personal injury or death; disconnect power to range before servicing, unless testing requires power.



Wall Oven Wiring Diagram and Schematic 16026275 16026568 16026569

⚠ WARNING

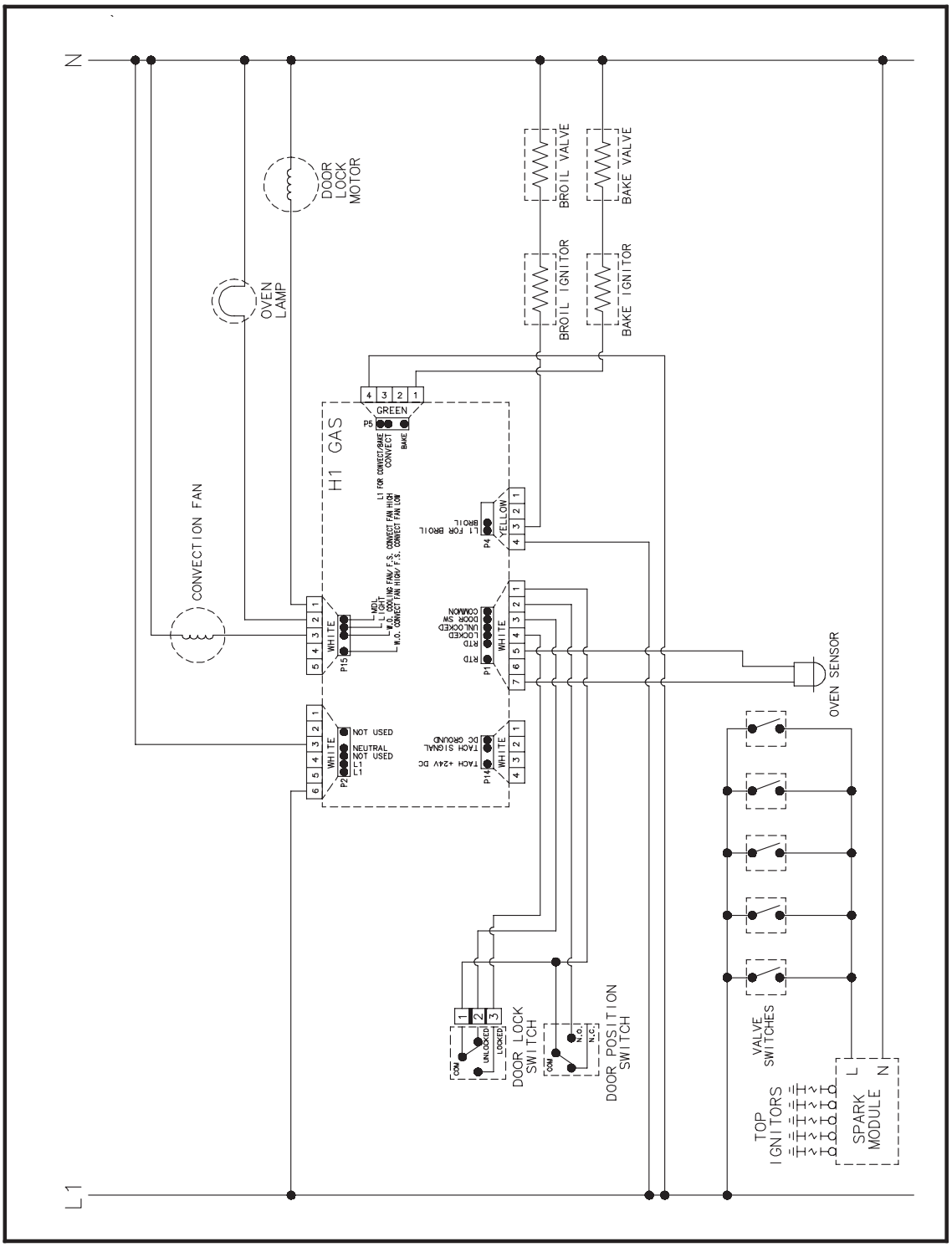
To avoid risk of electrical shock, personal injury or death; disconnect power to oven before servicing, unless testing requires power.



Wiring Diagram and Schematic 16026851

⚠ WARNING

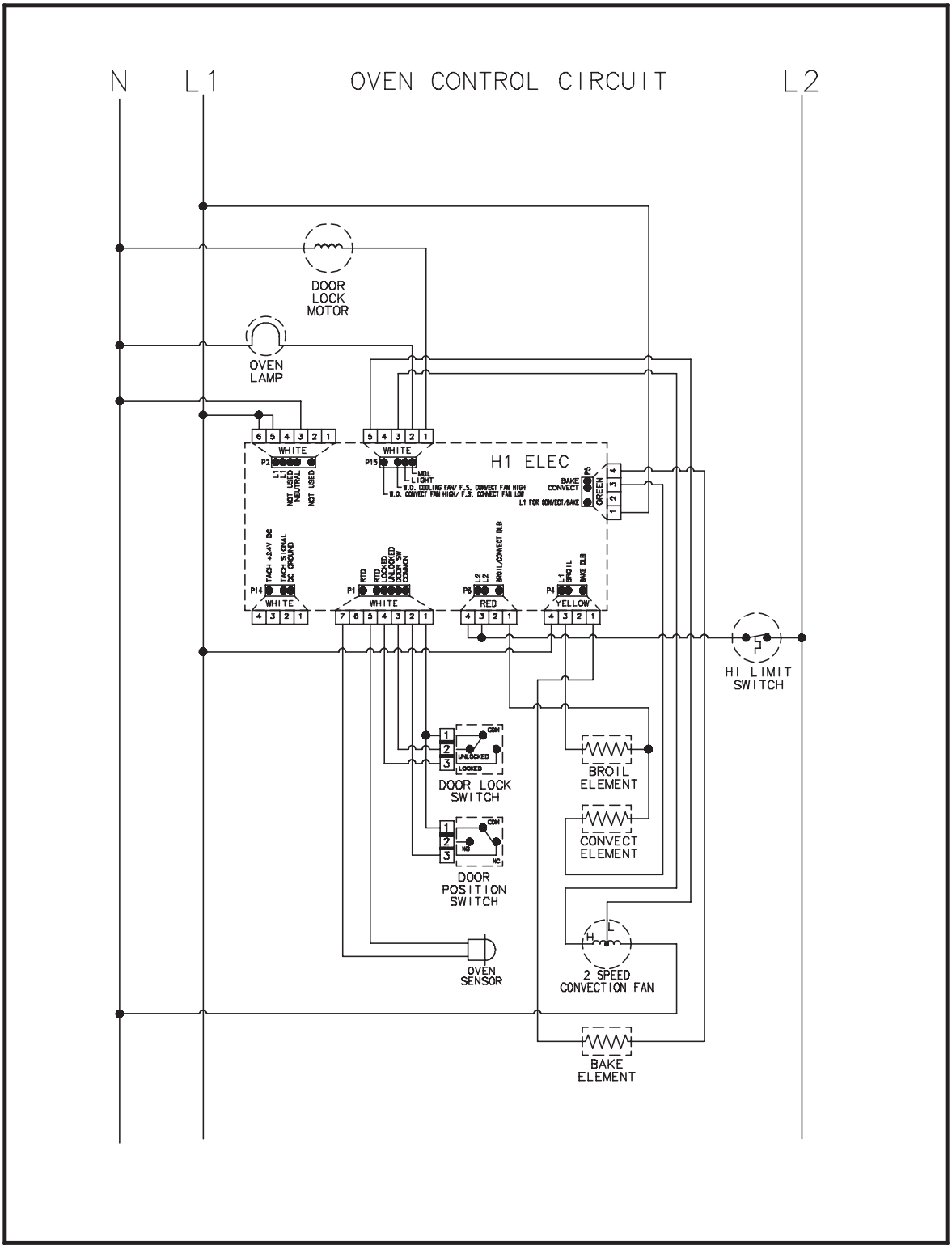
To avoid risk of electrical shock, personal injury, or death, disconnect power and gas to range before servicing, unless testing requires power and/or gas.



Wiring Diagram and Schematic 16027226 16022496

⚠ WARNING

To avoid risk of electrical shock, personal injury or death; disconnect power to range before servicing, unless testing requires power.

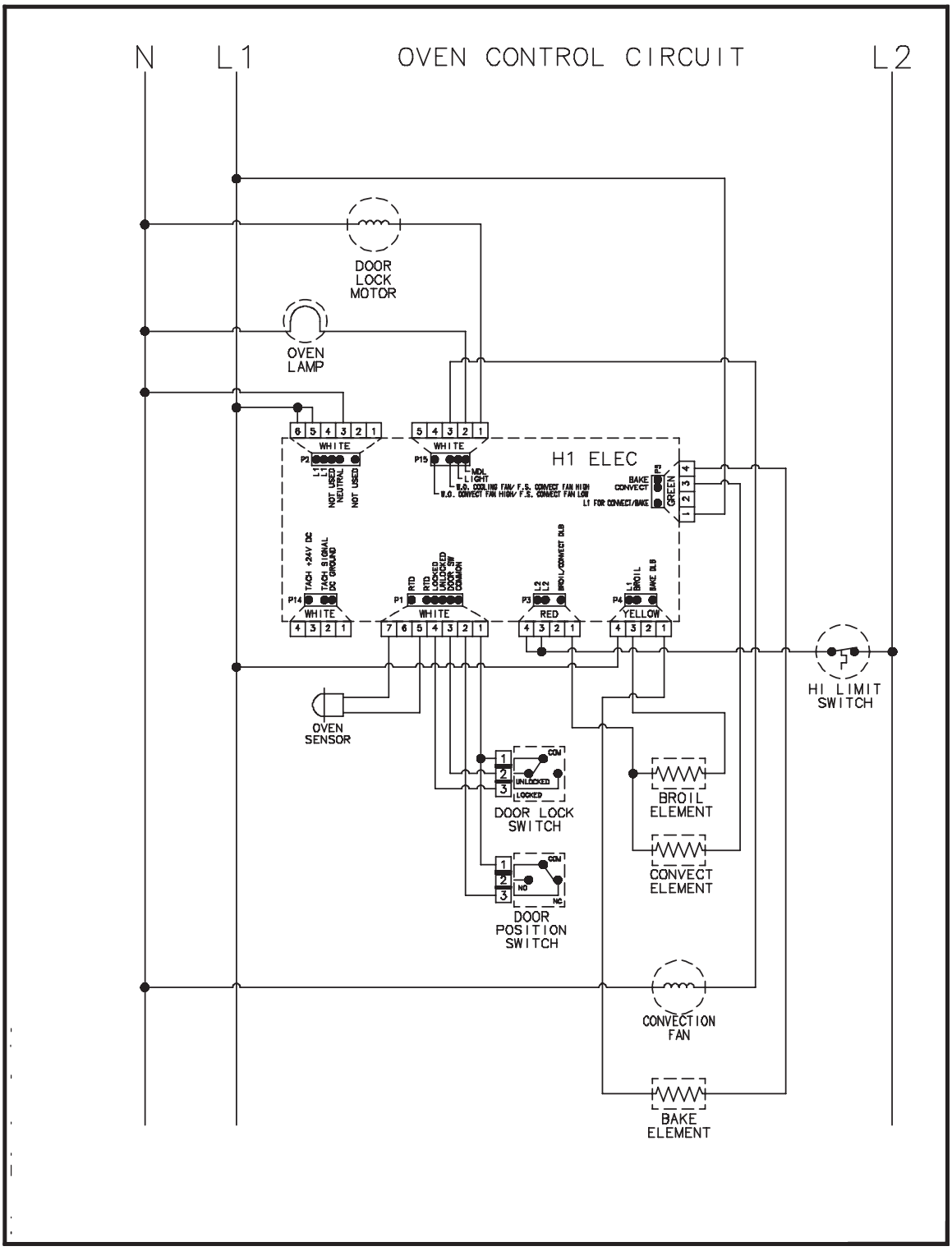


Schematic Diagram (Control Circuits), JER8885QAS Series 15 and later

Wiring Diagram and Schematic 16027229

⚠ WARNING

To avoid risk of electrical shock, personal injury, or death, disconnect power to range before servicing, unless testing requires power.

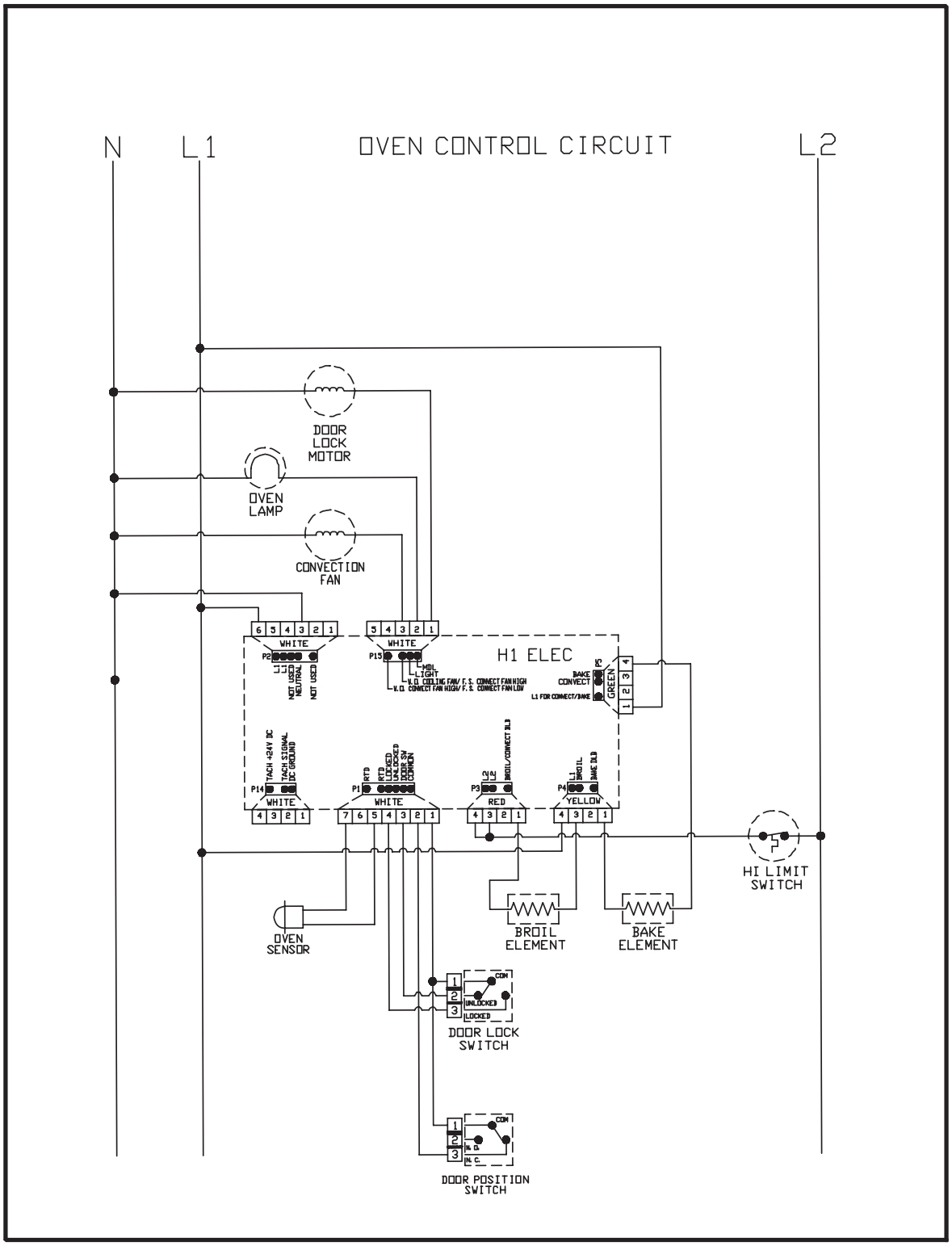


Schematic (Control Circuits) MER5875RAS Series 13, MER5875RAF/B Series 14, MER5875RAN Series 15

Wiring Diagram and Schematic 16027232

⚠ WARNING

To avoid risk of electrical shock, personal injury, or death, disconnect power to range before servicing, unless testing requires power.

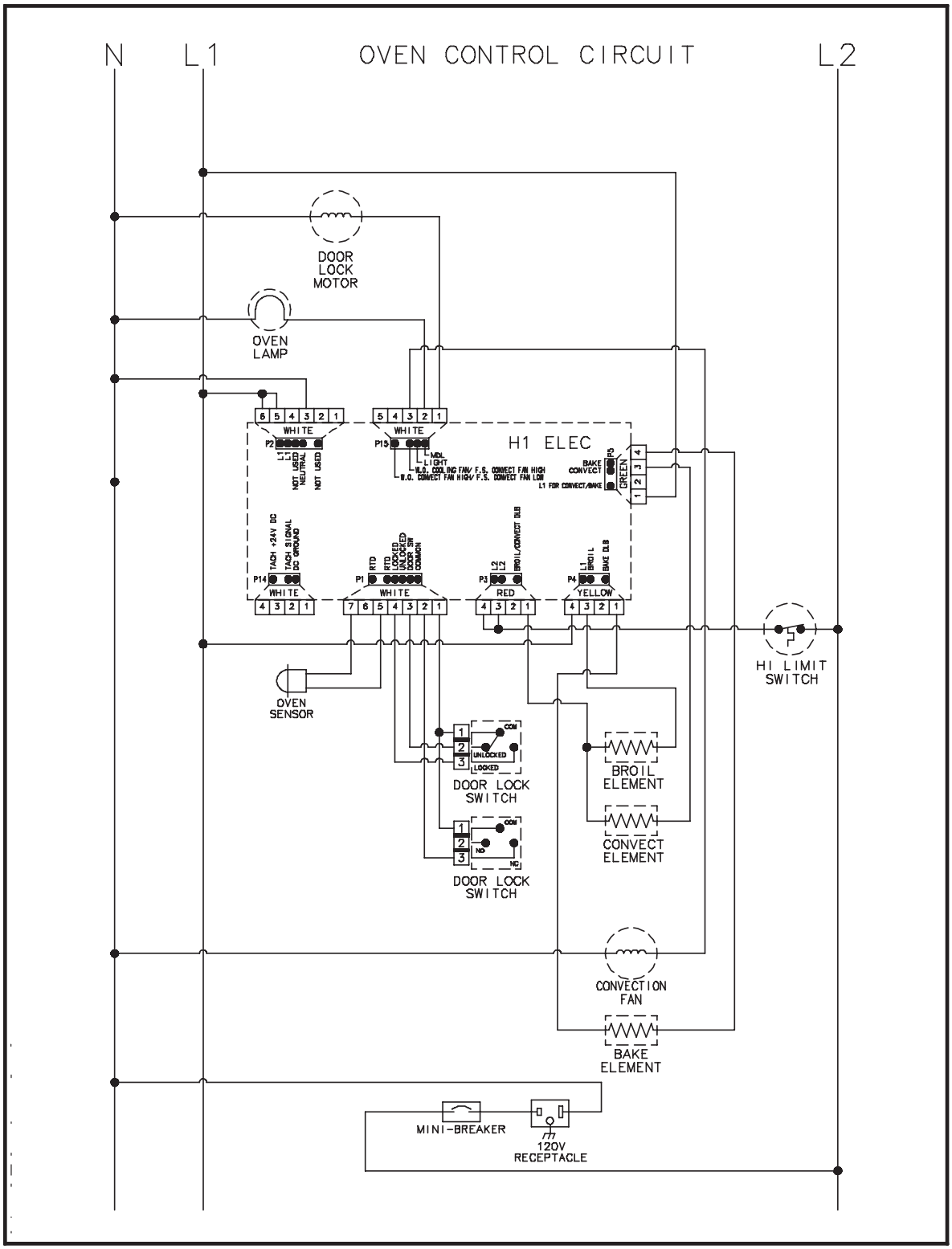


Schematic, AER5845RAS Series 13, AER5845RAB/W Series 14

Wiring Diagram and Schematic 16027233

⚠ WARNING

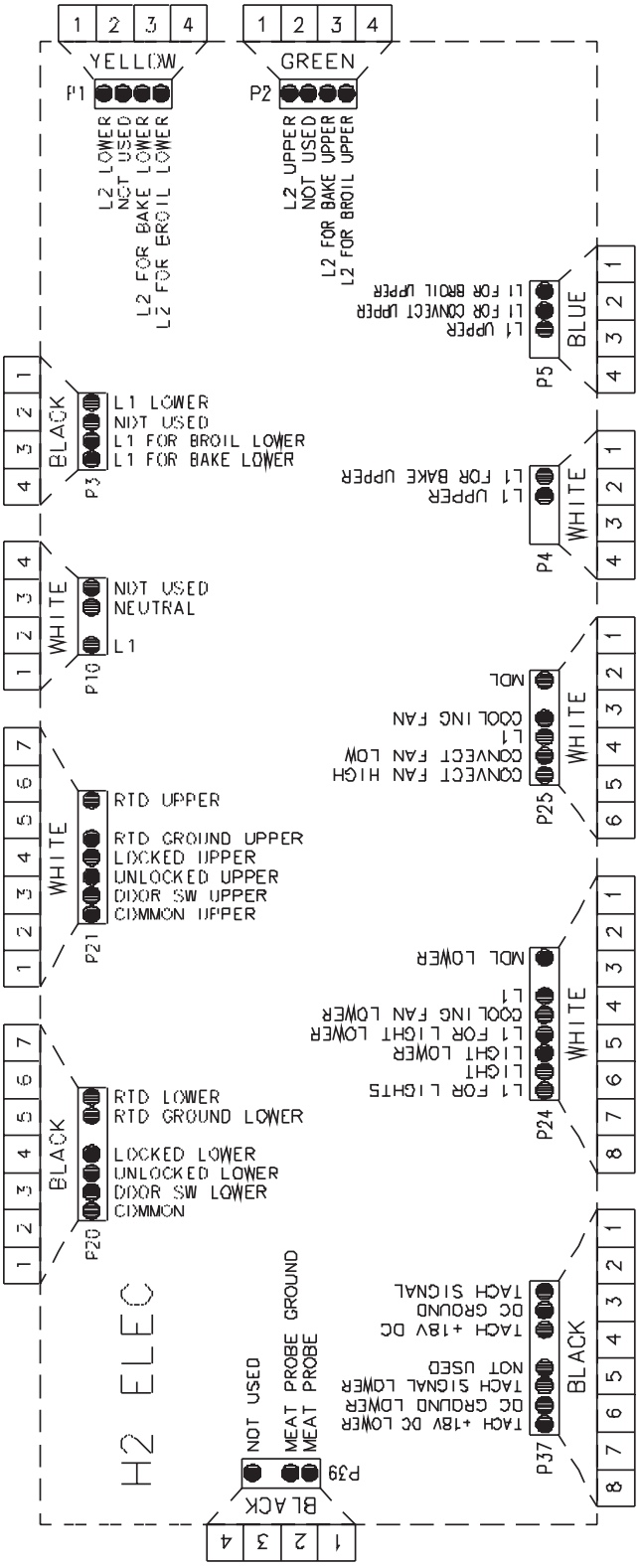
To avoid risk of electrical shock, personal injury, or death, disconnect power to range before servicing, unless testing requires power.



Schematic, MER5875RCQ/S Series 15; MER5875RCB Series 16

H2 CONTROLS

Pin Out Locations

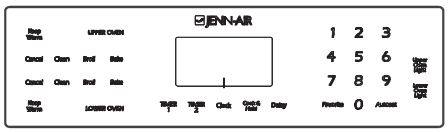


Hidden Functions

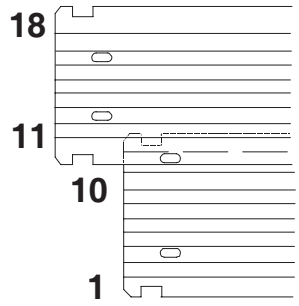
Controller	Component	Test Procedure	Results
H2	Oven temperature adjustment	Press ***BAKE*** pad. Enter ***550*** on the digit-pad. Immediately press and hold ***BAKE*** pad for 3 to 5 seconds. Oven can be adjusted from -35 to +35 degrees in 5-degree increments by pressing ***AUTOSET*** pad. To avoid over adjusting the oven, move temperature 5 degrees each time. Wait 4 seconds for the data entry timer to expire to accept the change. Temperature adjustment will be retained even through a power failure.	While increasing or decreasing oven temperature, this does not affect self-cleaning temperature.
H2	Temperature display	Press and hold ***Cancel*** and ***Bake*** pads for 3 to 5 seconds.	This mode enables the user to indicate °F or °C on the display.
H2	Clock display	Press and hold ***Cancel*** and ***Clock*** pads for 3 to 5 seconds.	Allows clock to be toggled on or off.
H2	24-hour clock	Press and hold ***Cancel*** and ***Favorite*** pads for 3 to 5 seconds.	Allows the time on the clock to be toggled from 12-hour or 24-hour display.
H2	Factory default	Press and hold ***Cancel*** and ***Keep Warm*** pads for 3 to 5 seconds.	Allows the clock to be reset to factory settings.
H2	12-hour off	Control automatically cancels cooking operations and removes relay drives 12 hours after the last pad touch.	See Sabbath mode to disable.
H2	Sabbath mode	Hold ***CLOCK*** pad for 3 to 5 seconds to activate Sabbath mode. Hold ***CLOCK*** pad for 3 to 5 seconds to disable Sabbath mode.	"SAb" flashes for 5 seconds. Display returns to time of day. All pad inputs are disabled except for **CANCEL** and **CLOCK** pads. This mode disables the normal 12-hour shutoff to allow operation of the bake mode for a maximum of 72 hours.
H2	Child lockout	Press and hold ***Cancel*** and ***Cook & Hold*** pads for 3 to 5 seconds. **"OFF"** displays where the temperature normally appears. **"LOCK"** flashes while door is locking. To reactivate the control, press and hold ***Cancel*** and ***Cook & Hold*** pads for 3 to 5 seconds.	This is a safety feature that can be used to prevent children from accidentally programming the oven. It disables the electronic oven control. Child lockout features must be reset after a power failure.
H2	Diagnostic code display	See "Quick Test Mode." Cycle through the codes using the number pads 1 through 5.	The last 5 diagnostic codes will be stored in the non-volatile memory. See **"Description of Error Codes"** page 2-1 for explanation.

Testing the User Interface

Control Panel Assembly
(Model JJW8430DD*)

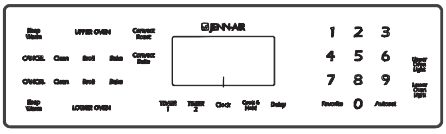


Continuity is indicated as follows:
1000 – 6600 Ω for Cancel pad
1000 – 15000 Ω for all other pads

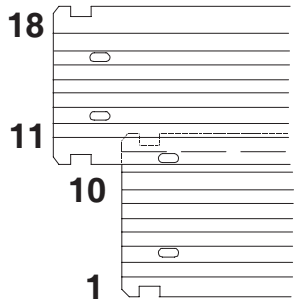


Pad	Trace	Measurement
1	15 & 16	Continuity
2	14 & 16	Continuity
3	16 & 17	Continuity
4	6 & 16	Continuity
5	6 & 7	Continuity
6	7 & 17	Continuity
7	5 & 6	Continuity
8	5 & 14	Continuity
9	6 & 14	Continuity
0	14 & 15	Continuity
Lower Cancel	1 & 2 ***or***	Continuity
	1 & 3	Continuity
Lower Broil	8 & 15	Continuity
Lower Bake	7 & 15	Continuity
Delay	5 & 7	Continuity
Clock	7 & 16	Continuity
Favorite	4 & 16	Continuity
Lower Clean	4 & 15	Continuity
Upper Clean	4 & 14	Continuity
Upper Cancel	11 & 12 ***or***	Continuity
	11 & 13	Continuity
Lower Light	14 & 17	Continuity
Upper Keep Warm	4 & 5	Continuity
Upper Light	8 & 17	Continuity
Autoset	7 & 14	Continuity
Lower Keep Warm	4 & 8	Continuity
Upper Bake	5 & 15	Continuity
Timer 2	7 & 8	Continuity
Cook & Hold	5 & 16	Continuity
Upper Broil	8 & 14	Continuity
Timer 1	8 & 16	Continuity

Control Panel Assembly
(Models JJW9130DD*, JJW9330DD*)



Continuity is indicated as follows:
1000 – 6600 Ω for Cancel pad
1000 – 15000 Ω for all other pads



Pad	Trace	Measurement
1	15 & 16	Continuity
2	14 & 16	Continuity
3	16 & 17	Continuity
4	6 & 16	Continuity
5	6 & 7	Continuity
6	7 & 17	Continuity
7	5 & 6	Continuity
8	5 & 14	Continuity
9	6 & 14	Continuity
0	14 & 15	Continuity
Lower Cancel	1 & 2 ***or***	Continuity
	1 & 3	Continuity
Lower Broil	8 & 15	Continuity
Lower Bake	7 & 15	Continuity
Delay	5 & 7	Continuity
Clock	7 & 16	Continuity
Favorite	4 & 16	Continuity
Lower Clean	4 & 15	Continuity
Upper Clean	4 & 14	Continuity
Upper Cancel	11 & 12 ***or***	Continuity
	11 & 13	Continuity
Lower Light	14 & 17	Continuity
Upper Keep Warm	4 & 5	Continuity
Upper Light	8 & 17	Continuity
Autoset	7 & 14	Continuity
Lower Keep Warm	4 & 8	Continuity
Upper Bake	5 & 15	Continuity
Timer 2	7 & 8	Continuity
Cook & Hold	5 & 16	Continuity
Upper Broil	8 & 14	Continuity
Timer 1	8 & 16	Continuity
Convect Roast	6 & 15	Continuity
Convect Bake	4 & 7	Continuity

"Quick Test" Mode for Electronic Range Control

Follow procedure below to use the quick test mode. Entries must be made within 32 seconds of each other or the control will exit the quick test mode.

1. **Press and hold *CANCEL*** and ***BROIL*** pads for **3 to 5 seconds**.
2. Once the control has entered the "Quick Test" mode, release both pads.
3. Press each of the following pads indicated in the table below.

NOTE: First time one of the following pads is pressed it will activate the response. The second time the pad is pressed it will deactivate the response.

Display will indicate the following:

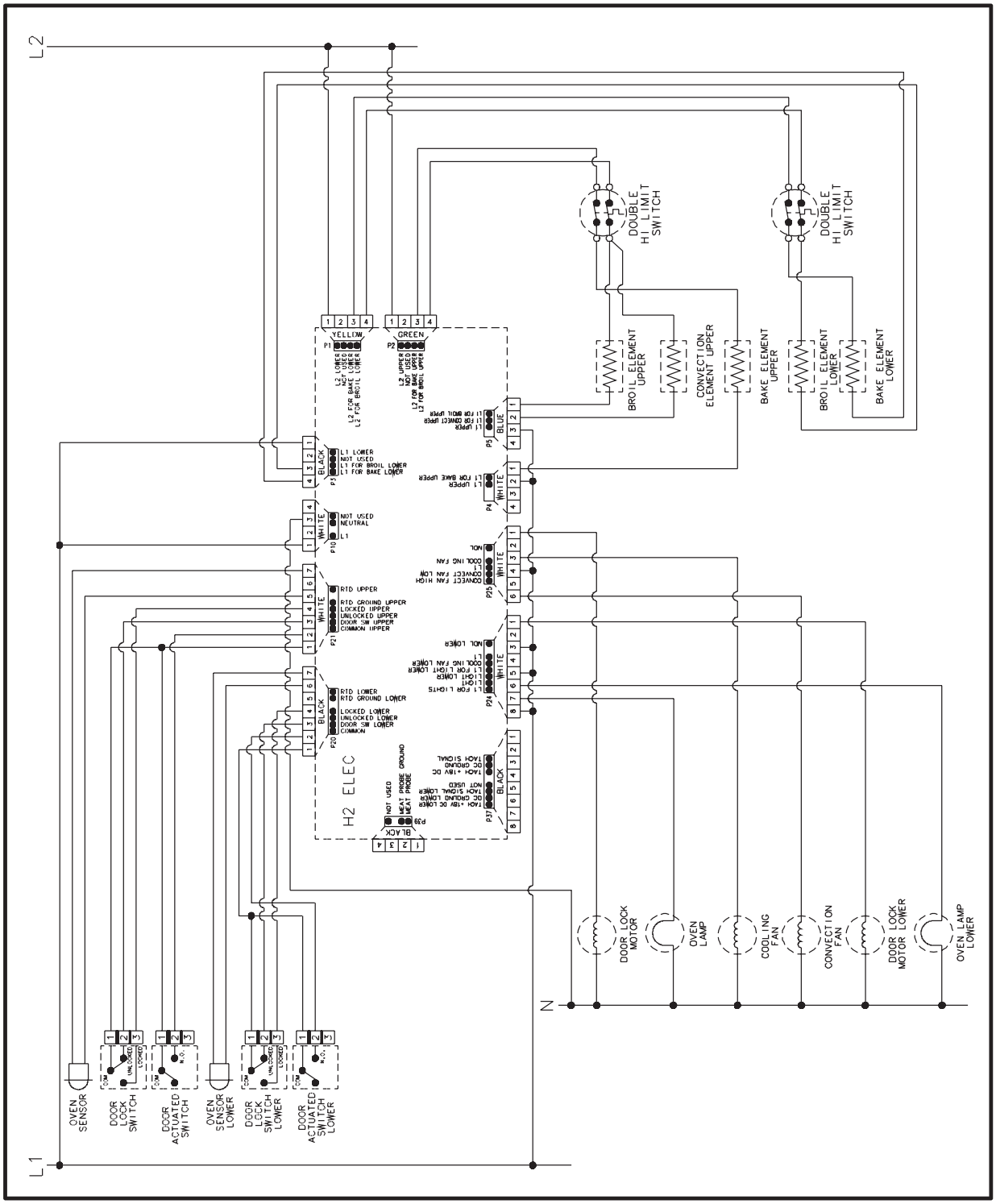
Pad	Response
BAKE	Bake DLB and Bake relay activated
BROIL	Broil DLB and Broil relay activated
KEEP WARM	Bake DLB and Broil DLB activated
CONVECT BAKE	Convection Fan on high speed
CONVECT ROAST	Cooling Fan activated
CLEAN	MDL relay activated
COOK & HOLD	Displays last diagnostic code
FAVORITE	Displays EEPROM version number
TIMER	Displays main code version number
CLOCK	All display segments illuminated
OVEN LIGHT	Oven light activated
CANCEL	Exit Quick Test mode
1	Even segments on
2	Odd segments on
3	Convection Ring activated; Convection Ring DLB activated
4	Bake relay activated
5	Broil relay activated
6	Convection relay activated
7	N/A
8	N/A
9	N/A
AUTOSET	Steps through last 5 diagnostic codes

Diagnostic Code Display Mode can be activated by **pressing and holding** the ***AUTOSET*** pad for **3 to 5 seconds** at power-up. **Diagnostic Code Display Mode can only be started while powering up the control.**

Wiring Diagram and Schematic 16022511 16026546

WARNING

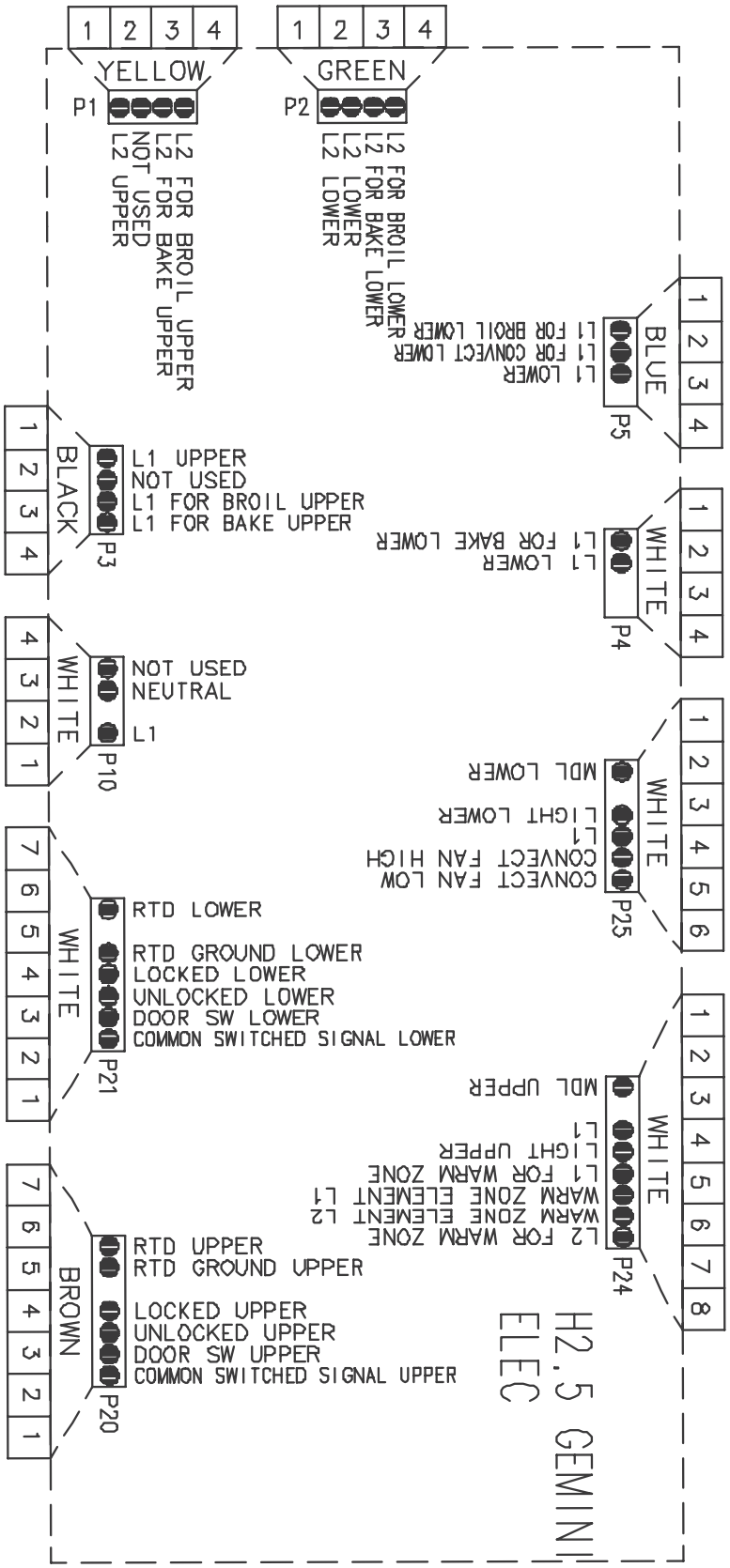
To avoid risk of electrical shock, personal injury or death; disconnect power to oven before servicing, unless testing requires it.



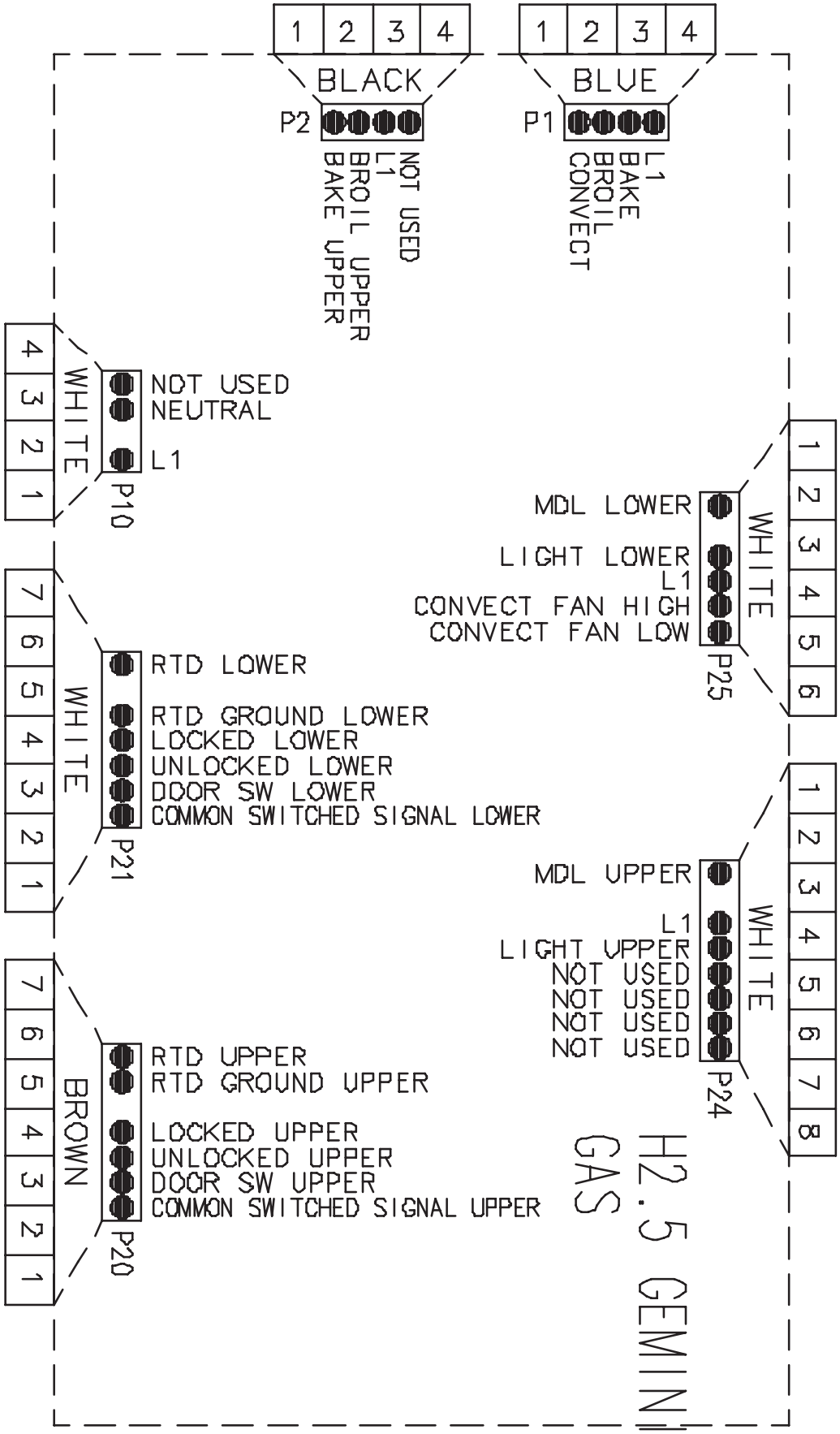
— NOTES —

H2.5 CONTROLS

Pin Out Locations



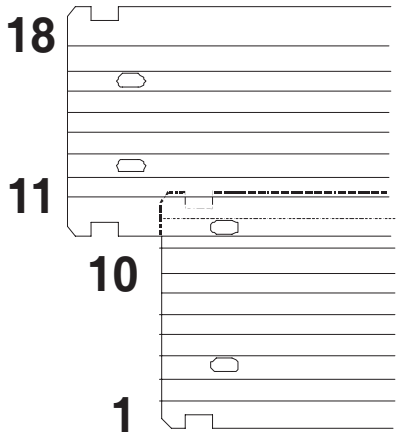
Pin Out Locations

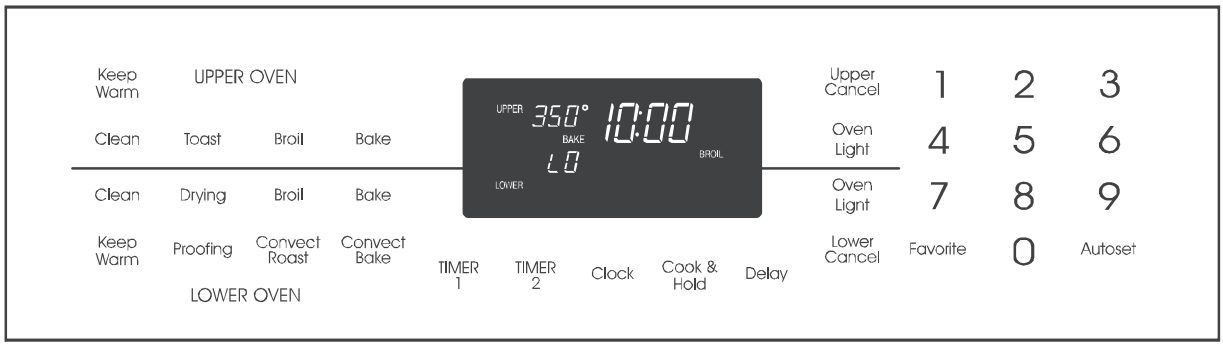


Hidden Functions

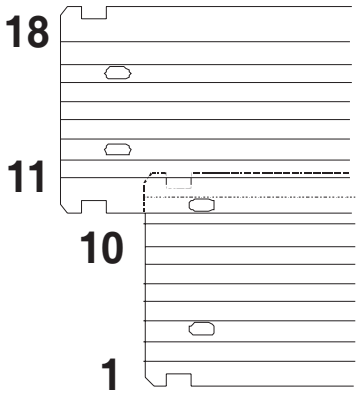
Illustration	Component	Test Procedure	Results
H2.5 Controlled	Oven temperature adjustment (Upper Oven)	Press ***Upper Bake*** pad. Enter ***550*** on the digit-pad. Immediately press and hold ***Upper Bake*** pad for 3 seconds. Oven can be adjusted from -35 to +35 degrees in 5-degree increments by pressing ***Autoset*** pad. To avoid over adjusting the oven, move temperature 5 degrees each time. Wait 4 seconds for the data entry timer to expire to accept the change. Temperature adjustment will be retained even through a power failure.	While increasing or decreasing oven temperature, this does not affect self-cleaning temperature.
H2.5 Controlled	Oven temperature adjustment (Lower Oven)	Press ***Lower Bake*** pad. Enter ***550*** on the digit-pad. Immediately press and hold ***Lower Bake*** pad for 3 seconds. Oven can be adjusted from -35 to +35 degrees in 5-degree increments by pressing ***Autoset*** pad. To avoid over adjusting the oven, move temperature 5 degrees each time. Wait 4 seconds for the data entry timer to expire to accept the change. Temperature adjustment will be retained even through a power failure.	While increasing or decreasing oven temperature, this does not affect self-cleaning temperature.
H2.5 Controlled	Temperature display	Press and hold ***Upper Cancel*** and ***Upper Bake*** pads for 3 seconds.	This mode enables the user to indicate °F or °C on the display.
H2.5 Controlled	Clock Display	Press and hold ***Upper Cancel*** and ***Clock*** pads for 3 seconds.	Allows clock to be toggled On or OFF.
H2.5 Controlled	24 Hour Clock	Press and hold ***Upper Cancel*** and ***Favorite*** pads for 3 seconds.	Allows the time on the clock to be toggled from 12 hour or 24 hour display.
H2.5 Controlled	Factory Default	Press and hold ***Upper Cancel*** and ***Upper Keep Warm*** pads for 3 seconds.	Allows the clock to be reset to factory settings.
H2.5 Controlled	Twelve hour off	Control automatically cancels/removes any cooking operations/relay drives 12 hours after the last pad touch.	See Sabbath mode to disable.
H2.5 Controlled	Sabbath Mode	Hold ***Clock*** pad for 3 to 5 seconds to activate Sabbath mode. Hold ***Clock*** pad for 3 to 5 seconds to disable Sabbath mode.	"SAbbAth" will display for 5 seconds, then change to "SAb" (displayed in Temp area). All pad inputs are disabled except for CANCEL and CLOCK pads. This mode disables the normal 12 hour shutoff to allow operation of the bake mode for a maximum of 72 hours.
H2.5 Controlled	Beeper Volume	Hold ***Upper Cancel*** and ***Delay*** pads for 3 seconds to adjust beeper loudness level.	Volume settings are Low, Medium and High.
H2.5 Controlled	Child lock out	Press and hold ***Upper Cancel*** and ***Cook & Hold*** pads for 3 seconds. **"OFF"** will display where the temperature normally appears. "**LOCK**" will display flashing while door is locking.To reactivate the control, press and hold ***Cancel*** and ***Cook & Hold*** pads for 3 seconds.	This is a safety feature that can be used to prevent children from accidentally programming the oven. It disables the electronic oven control. Child lockout features must be reset after a power failure.
H2.5 Controlled	Diagnostic Code Display	Press and hold ***Upper Cancel*** and ***Autoset*** pads for 3 seconds. See "Quick Test Mode." Cycle through the codes using the number pads 1 through 5.	The last 5 diagnostic codes will be stored in the non-volatile memory. See **"Description of Error Codes"** page 2-1 for explanation.

Testing the User Interface

Component	Test Procedure	Results		
Control Panel Assembly 	Continuity is indicated as follows: 1000 – 6600 Ω for Cancel pad 1000 – 10000 Ω for All other pads 	**Pad**	**Trace**	**Measurement**
		1	14 & 16	Continuity
		2	16 & 17	Continuity
		3	6 & 8	Continuity
		4	6 & 7	Continuity
		5	8 & 17	Continuity
		6	7 & 14	Continuity
		7	6 & 15	Continuity
		8	5 & 14	Continuity
		9	6 & 14	Continuity
		0	8 & 14	Continuity
		Lower Cancel	1 & 2	Continuity
		Lower Cancel	2 & 3	Continuity
		Lower Cancel	1 & 3	Continuity
		Upper Cancel	11 & 12	Continuity
		Upper Cancel	12 & 13	Continuity
		Upper Cancel	11 & 13	Continuity
		Conv Bake	8 & 16	Continuity
		Delay	6 & 16	Continuity
		Clock	5 & 16	Continuity
		Favorite	5 & 7	Continuity
		Lower Clean	4 & 14	Continuity
		Upper Clean	14 & 15	Continuity
		Lower Bake	5 & 15	Continuity
		Lower Light	15 & 16	Continuity
		Upper Keep Warm	6 & 17	Continuity
		Upper Light	7 & 15	Continuity
		Autoset	14 & 17	Continuity
		Lower Keep Warm	4 & 15	Continuity
		Conv Roast	8 & 15	Continuity
		Lower Broil	4 & 17	Continuity
		Upper Bake	7 & 8	Continuity
		Timer 2	4 & 7	Continuity
		Cook & Hold	5 & 6	Continuity
		Upper Broil	7 & 17	Continuity
		Timer 1	4 & 16	Continuity
		Drying	4 & 5	Continuity
		Proof	4 & 8	Continuity
		Toast	7 & 16	Continuity

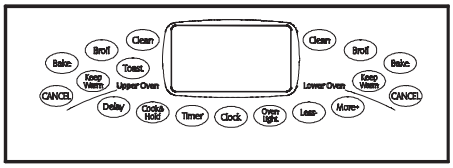


Testing the User Interface

Illustration/Component	Test Procedure	Results		
Control Panel Assembly 	Continuity is indicated as follows: 1000 – 6600 Ω for Cancel and Warming Zone pads 1000 – 10000 Ω for All other pads 	**Pad**	**Trace**	**Measurement**
		1	14 & 16	Continuity
		2	16 & 17	Continuity
		3	6 & 8	Continuity
		4	6 & 7	Continuity
		5	8 & 17	Continuity
		6	7 & 14	Continuity
		7	6 & 15	Continuity
		8	5 & 14	Continuity
		9	6 & 14	Continuity
		0	8 & 14	Continuity
		Lower Cancel	1 & 2 or 3	Continuity
		Upper Cancel	11 & 12 or 13	Continuity
		Convect Bake	4 & 15	Continuity
		Delay	6 & 16	Continuity
		Clock	5 & 16	Continuity
		Favorite	5 & 7	Continuity
		Lower Clean	5 & 15	Continuity
		Upper Clean	7 & 16	Continuity
		Lower Bake	8 & 15	Continuity
		Lower Light	7 & 15	Continuity
		Upper Keep Warm	7 & 17 15 & 16	Continuity Continuity
		Upper Light	14 & 17	Continuity
		Autoset	8 & 16	Continuity
		Lower Keep Warm	4 & 8 4 & 5	Continuity Continuity
		Conv Roast	4 & 14	Continuity
		Lower Broil	4 & 7	Continuity
		Upper Bake	5 & 6	Continuity
		Timer 2	14 & 15	Continuity
		Cook & Hold	4 & 16	Continuity
		Upper Broil	7 & 8	Continuity
		Timer 1	4 & 6 or 17	Continuity
		Toast Warm Zone		

Testing the User Interface

Control Panel Assembly



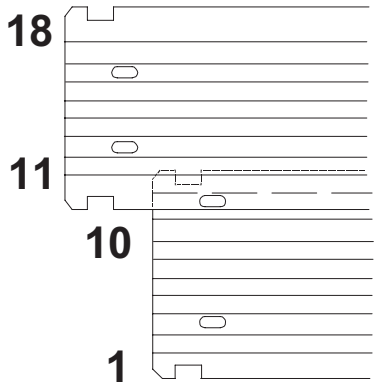
Continuity is indicated as follows:

Cancel and **Warming Zone** pads:
1000 – 6600 Ω.

All other pads:
1000 – 10000 Ω.

NOTE: Pins 6 & 9 are jumped together in control.

NOTE: Pins 1 & 10 and 11 & 18 are loops in circuit.



Pad	Trace	Measurement
1	14 & 16	Continuity
2	17 & 16	Continuity
3	6 & 8	Continuity
4	7 & 6	Continuity
5	8 & 17	Continuity
6	7 & 14	Continuity
7	6 & 15	Continuity
8	5 & 14	Continuity
9	6 & 14	Continuity
0	8 & 14	Continuity
Lower Cancel	1 & 2	Continuity
Lower Cancel	1 & 3	Continuity
Upper Cancel	11 & 12	Continuity
Upper Cancel	11 & 13	Continuity
Conv Bake	4 & 15	Continuity
Delay	16 & 6	Continuity
Clock	5 & 16	Continuity
Favorite	5 & 7	Continuity
Lower Clean	5 & 15	Continuity
Upper Clean	7 & 16	Continuity
Lower Bake	8 & 15	Continuity
Lower Light	7 & 15	Continuity
Upper Keep Warm	7 & 17	Continuity
Upper Light	15 & 16	Continuity
Autoset	14 & 17	Continuity
Lower Keep Warm	8 & 16	Continuity
Conv Roast	5 & 4	Continuity
Upper Bake	4 & 14	Continuity
Timer 2	4 & 7	Continuity
Cook & Hold	6 & 5	Continuity
Upper Broil	14 & 15	Continuity
Timer 1	4 & 16	Continuity
Warm Zone	6 & 4	Continuity
Warm Zone	17 & 4	Continuity
Warm Zone	17 & 6	Continuity

"Quick Test" Mode for Electronic Range Control

Follow the procedure below to perform the Electronic Range Control (ERC) quick test. Instructions must be entered within 32 seconds of each other (via the touch pad) or the ERC will exit the quick test.

1. **Press and hold** *CANCEL* and *BROIL* pads for 3 seconds.
2. Once the control has entered the "Quick Test" mode, release both pads.
3. Press each of the following pads indicated in the table below.

NOTE: Press the applicable pad once to activate the associated response.
Press the applicable pad a second time to deactivate the associated response.

Display will indicate the following:

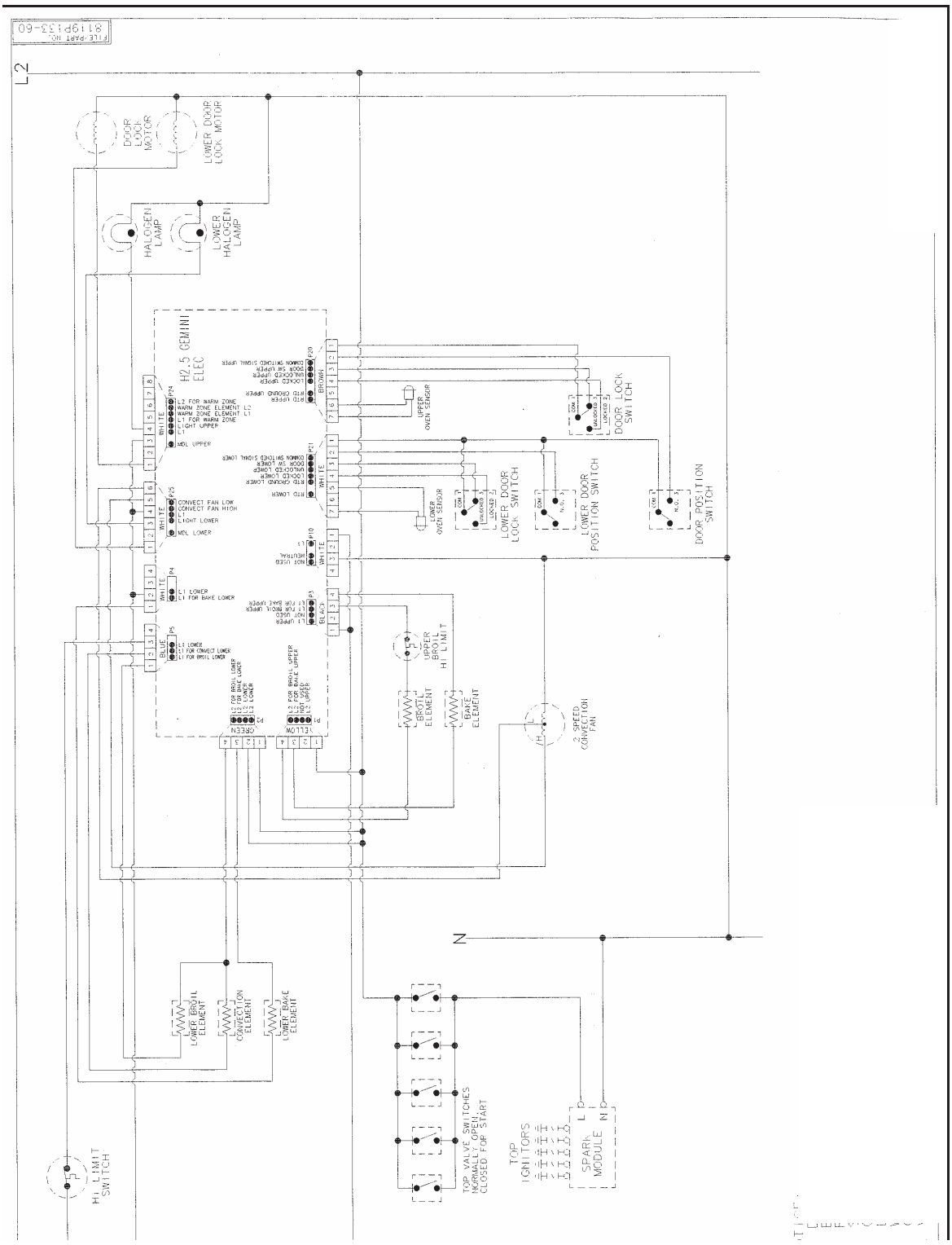
Pad	Response
BAKE	Bake DLB and Bake relay activated
BROIL	Broil DLB and Broil relay activated
KEEP WARM	Bake DLB and Broil DLB activated
CONVECT BAKE	Convection Fan on low speed
CONVECT ROAST	Convection Fan on high speed
CLEAN	MDL relay activated
COOK & HOLD	Displays last diagnostic code
FAVORITE	Displays EEPROM version number
TIMER1	Displays main code version number
CLOCK	All display segments illuminated
OVEN LIGHT	Oven light activated
CANCEL	Exit Quick Test mode
1	Even segments on
2	Odd segments on
3	Convection Ring activated; Convection Ring DLB activated
4	N/A
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
AUTOSET	Steps through last 5 diagnostic codes

Diagnostic Code Display Mode may be activated at power-up by **pressing and holding** the *AUTOSET* pad for 3 seconds. **Diagnostic Code Display Mode may be activated only when applying power to the control.**

Wiring Diagram and Schematic 16023460 16023506

⚠ WARNING

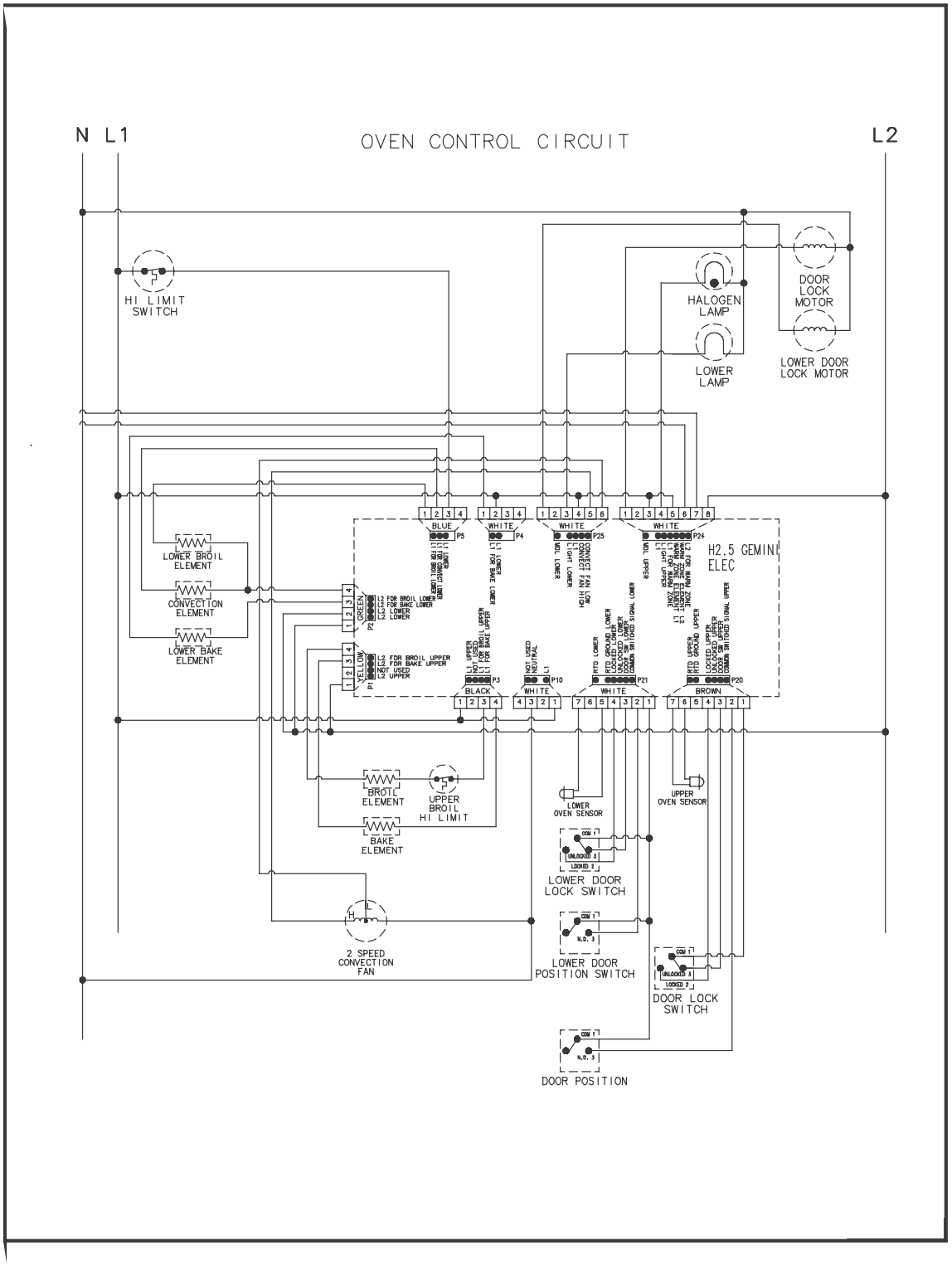
To avoid risk of electrical shock, personal injury or death; disconnect power to oven before servicing, unless testing requires power.



Wiring Diagram and Schematic 16026150

⚠ WARNING

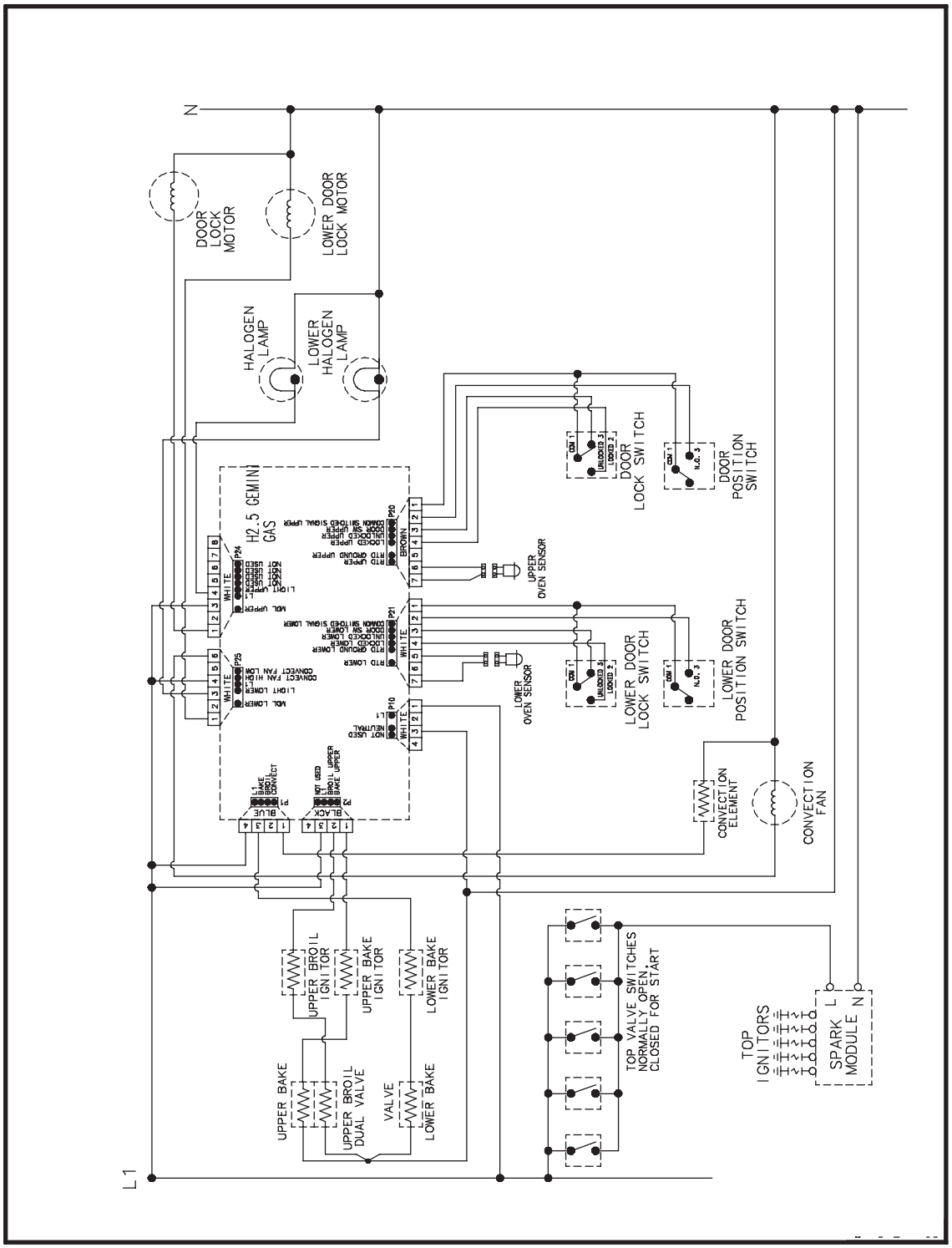
To avoid risk of electrical shock, personal injury or death; disconnect power to oven before servicing, unless testing requires power.



Wiring Diagram and Schematic 16027364

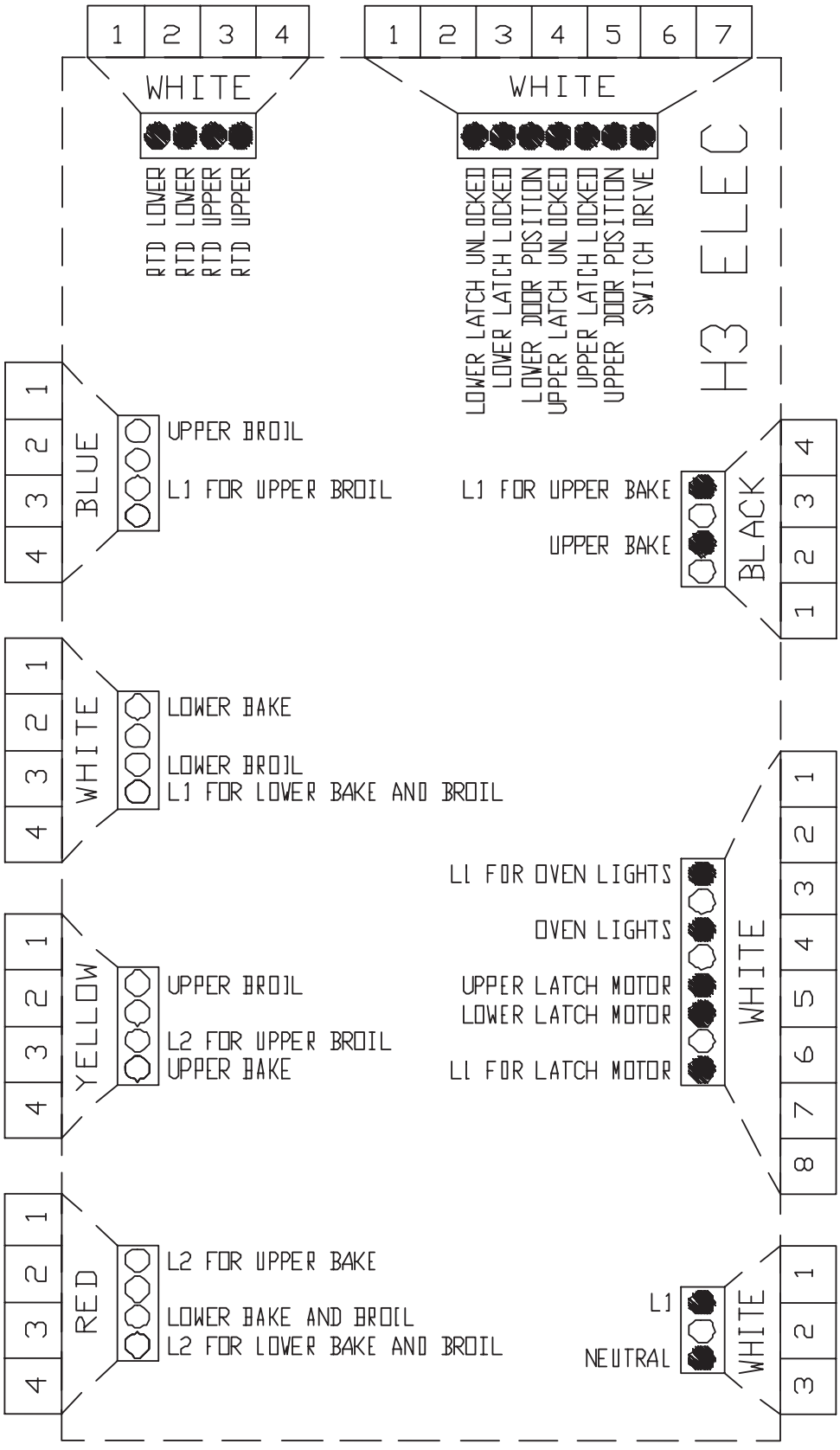
⚠ WARNING

To avoid risk of electrical shock, personal injury or death; disconnect power and gas to range before servicing, unless testing requires power and/or gas.

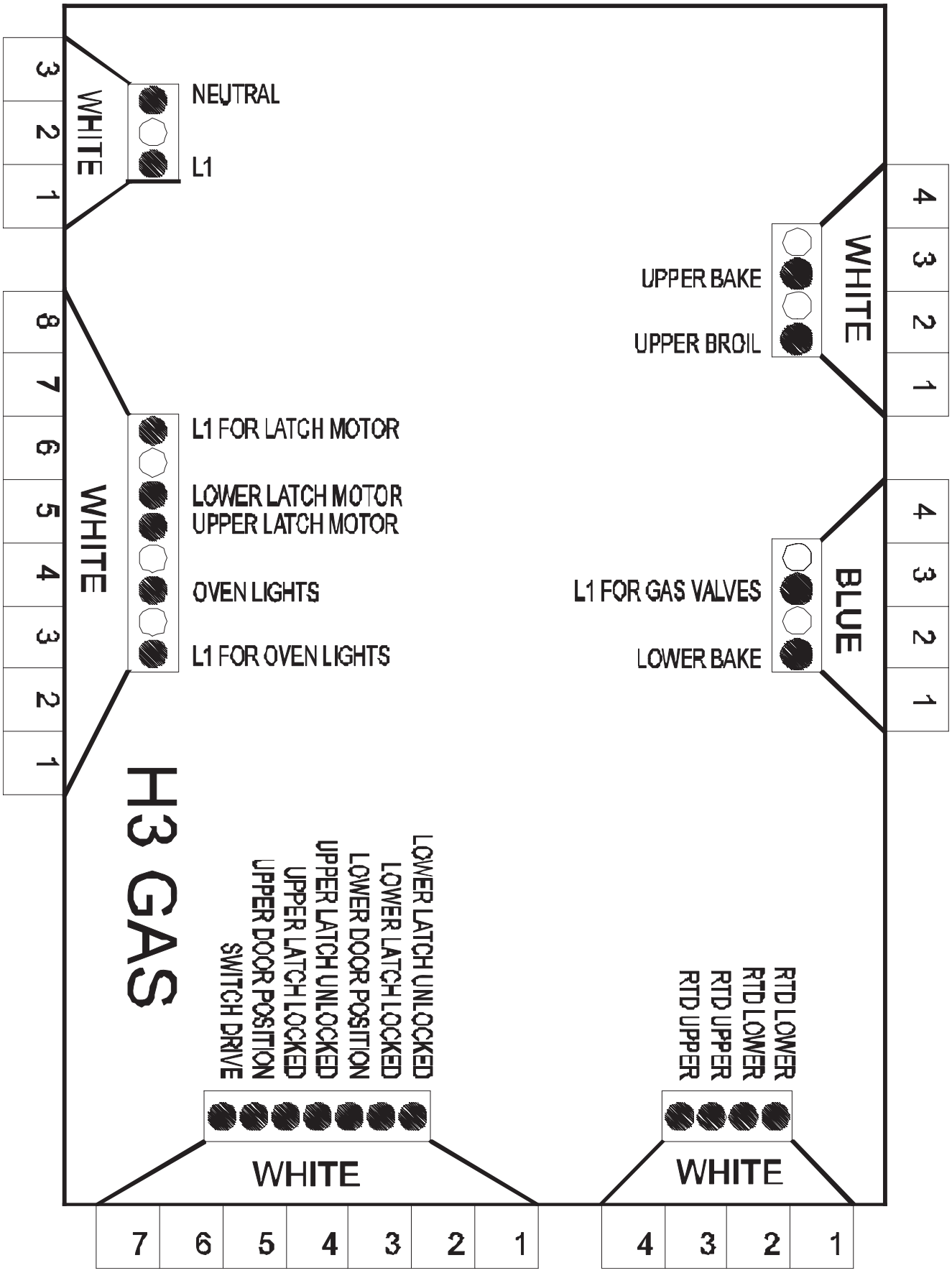


H3 CONTROLS

Pin Out Locations

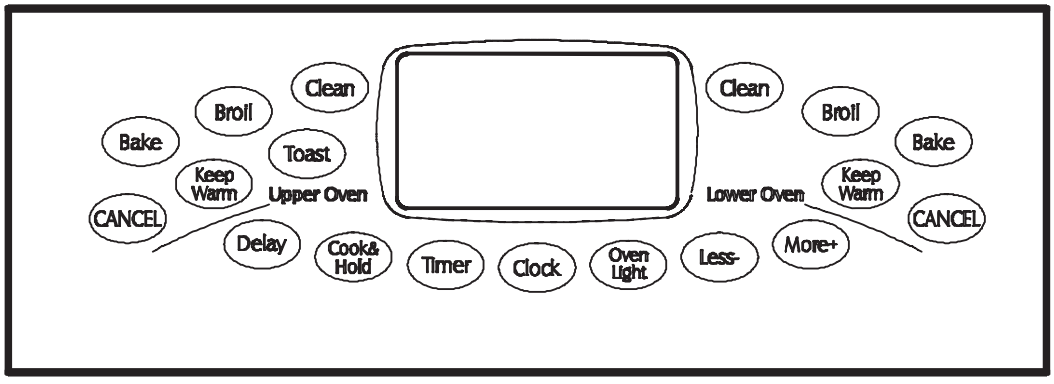


Pin Out Locations



Hidden Functions

Control	Feature	Procedure	Results
H3	Temperature display	Press and hold ***Upper Cancel*** and ***Upper Bake*** pads for 3 to 5 seconds.	Indicates °F or °C on the display.
H3	Factory Default	Press and hold ***Upper Cancel*** and ***Warm*** pads for 3 to 5 seconds.	Resets control to factory settings.
H3	Clock Display	Press and hold ***Upper Cancel*** and ***Clock*** pads for 3 to 5 seconds.	Turns clock display on or off.
H3	24 Hour Clock	Press and hold ***Upper Cancel*** and ***Delay*** pads for 3 to 5 seconds.	Displays either 12-hour or 24-hour time format.
H3	Demo	Press and hold ***Upper Cancel*** and ***Less -*** pads for 3 to 5 seconds.	Enters a demonstrative sales mode.
H3	Twelve hour off	Control w ill automatically cancel any cooking operation and remove all relay drives 12 hours after the last pad touch.	See Sabbath mode to disable.
H3	Sabbath Mode	Hold ***Clock*** pad for 3 to 5 seconds to activate Sabbath mode. Hold ***Clock*** pad for 3 to 5 seconds to disable Sabbath mode. Oven must be in BAKE mode before enabling SABBATH.	"SAb" displays and flashes for 5 seconds. All pad inputs are disabled except for CANCEL and CLOCK pads. This mode disables the normal 12 hour shutoff to allow operation of the bake mode for a maximum of 72 hours.
H3	Beeper Volume	Hold ***Upper Cancel*** and ***More+*** pads for 3 to 5 seconds to adjust beeper loudness level.	Volume settings are Low, Medium and High.
H3	Child lock out	Press and hold ***Upper Cancel*** and ***Cook & Hold*** pads for 3 to 5 seconds. **"OFF"** will display where the temperature normally appears. "**LOCK**" will display flashing while door is locking. To reactivate the control, press and hold ***Cancel*** and ***Cook & Hold*** pads for 3 to 5 seconds.	This disables the electronic oven control and prevents children from accidentally programming the oven. Child lockout features must be reset after a power failure.
H3	Diagnostic Code Display	Press and hold ***Upper Cancel*** and ***Timer*** for 3 to 5 seconds within 5 minutes of power up. See "Quick Test Mode." Cycle through the codes.	The last 5 diagnostic codes w ill be stored in the non-volatile memory. See **"Description of Error Codes"** page 2-1 for explanation.



Hidden Functions

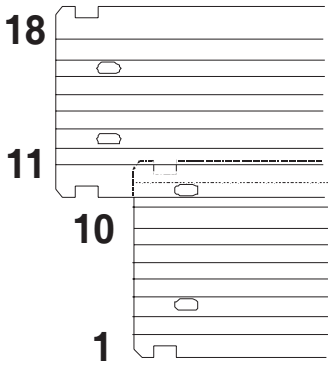
H3 Controlled	Oven temperature adjustment (Upper Oven)	Press ***Upper Bake*** pad. Enter ***550*** on the digit-pad. Immediately press and hold ***Upper Bake*** pad for 3 seconds. Oven can be adjusted from -35 to +35 degrees in 5-degree increments by pressing ***More+*** or ***Less***-pads. To avoid over adjusting the oven, move temperature 5 degrees each time. Wait 4 seconds for the data entry timer to expire to accept the change. Temperature adjustment will be retained even through a power failure.	While increasing or decreasing oven temperature, this does not affect self-cleaning temperature.
H3 Controlled	Oven temperature adjustment (Lower Oven)	Press ***Lower Bake*** pad. Enter ***550*** on the digit-pad. Immediately press and hold ***Lower Bake*** pad for 3 seconds. Oven can be adjusted from -35 to +35 degrees in 5-degree increments by pressing ***More+*** or ***Less-*** pads. To avoid over adjusting the oven, move temperature 5 degrees each time. Wait 4 seconds for the data entry timer to expire to accept the change. Temperature adjustment will be retained even through a power failure.	While increasing or decreasing oven temperature, this does not affect self-cleaning temperature.

Testing the User Interface

Control Panel Assembly

MER6875AC*

Continuity is indicated as follows:
1000 – 6600 Ω for Cancel and Warming Zone pads
1000 – 10000 Ω for All other pads



Pad	Trace	Measurement
1	14 & 16	Continuity
2	16 & 17	Continuity
3	6 & 8	Continuity
4	6 & 7	Continuity
5	8 & 17	Continuity
6	7 & 14	Continuity
7	6 & 15	Continuity
8	5 & 14	Continuity
9	6 & 14	Continuity
0	8 & 14	Continuity
Lower Cancel	1 & 2 or 3	Continuity
Upper Cancel	11 & 12 or 13	Continuity
Convect Bake	4 & 15	Continuity
Delay	6 & 16	Continuity
Clock	5 & 16	Continuity
Favorite	5 & 7	Continuity
Lower Clean	5 & 15	Continuity
Upper Clean	7 & 16	Continuity
Lower Bake	8 & 15	Continuity
Lower Light	7 & 15	Continuity
Upper Keep Warm	7 & 17	Continuity
Upper Light	15 & 16	Continuity
Autoset	14 & 17	Continuity
Lower Keep Warm	8 & 16	Continuity
Conv Roast	4 & 8	Continuity
Lower Broil	4 & 5	Continuity
Upper Bake	4 & 14	Continuity
Timer 2	4 & 7	Continuity
Cook & Hold	5 & 6	Continuity
Upper Broil	14 & 15	Continuity
Timer 1	4 & 16	Continuity
Toast	7 & 8	Continuity
Warm Zone	4 & 6 or 17	Continuity

Testing the User Interface

"Quick Test" Mode for Electronic Range Control

Follow the procedure below to perform the Electronic Range Control (ERC) quick test. Instructions must be entered within 32 seconds of each other (via the touch pad) or the ERC will exit the quick test.

1. **Press and hold** *UPPER CANCEL* and *BROIL* pads for 3 seconds.
2. Once the control has entered the "Quick Test" mode, release both pads.
3. Press each of the following pads indicated in the table below.

NOTE: Press the applicable pad once to activate the associated response.
Press the applicable pad a second time to deactivate the associated response.

Display will indicate the following:

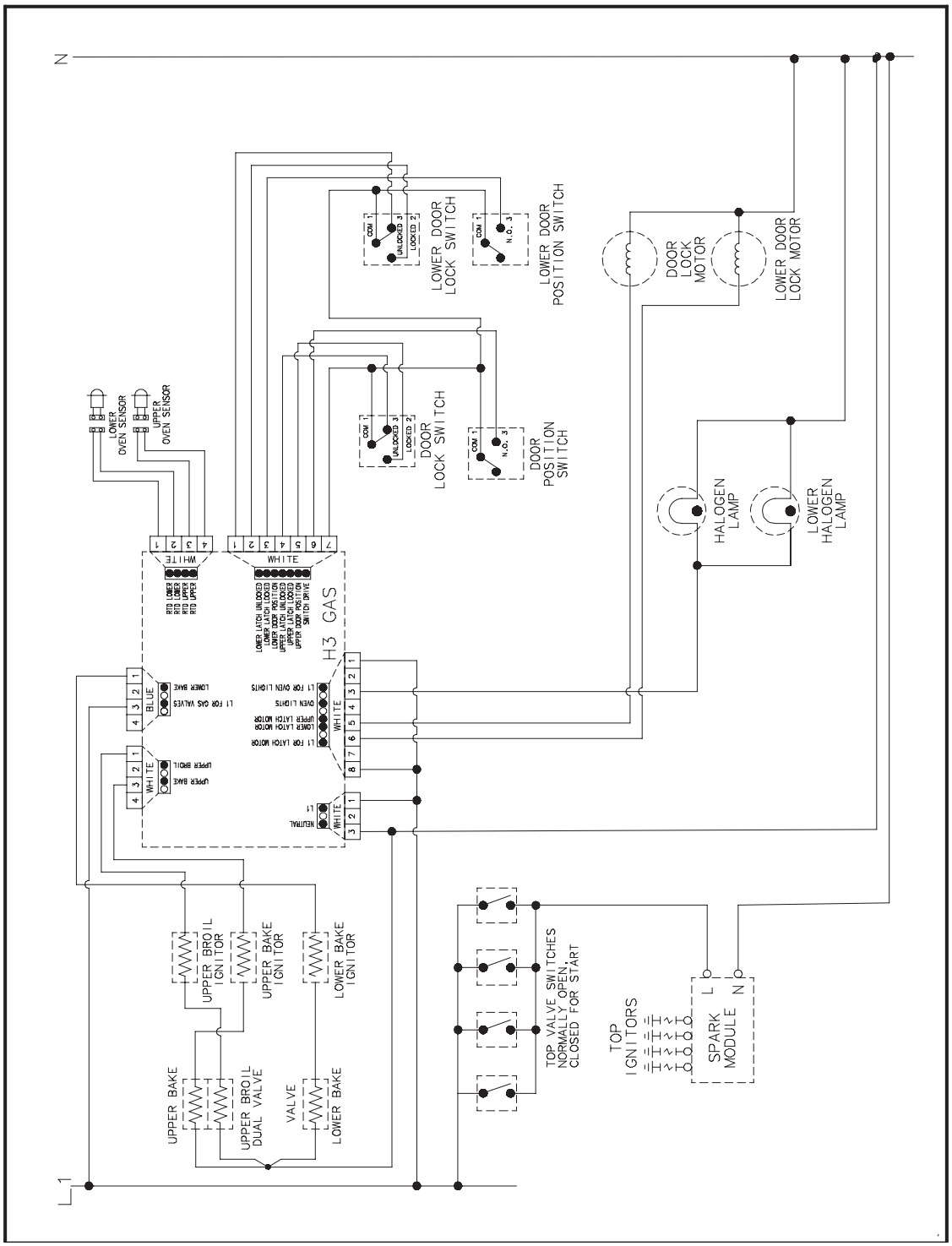
Pad	Response
UPPER BAKE	Upper Bake DLB and Upper Bake relay activated
LOWER BAKE	Lower Bake DLB and Lower Bake relay activated
TOAST	DLB relays activated
UPPER BROIL	Upper Broil DLB and Upper Broil relay activated
LOWER BROIL	Lower Broil DLB and Lower Broil relay activated
UPPER KEEP WARM	Motorized Door Lock - Upper
LOWER KEEP WARM	Motorized Door Lock - Lower
OVEN LIGHT	Oven lights activated
COOK & HOLD	Displays last diagnostic code
LESS (-)	Displays EEPROM version number
MORE (+)	Displays main code version number
CLOCK	All display segments illuminated

Diagnostic Code Display Mode is accessed via the Quick Test Mode. To view the last 5 error codes, enter the Quick Test Mode by **pressing and holding** the *UPPER CANCEL* and *UPPER BROIL* pads for 3 seconds within 5 minutes of power-up. **Diagnostic Code Display Mode may be activated only when applying power to the control.**

Wiring Diagram and Schematic 16027362 16023458

⚠ WARNING

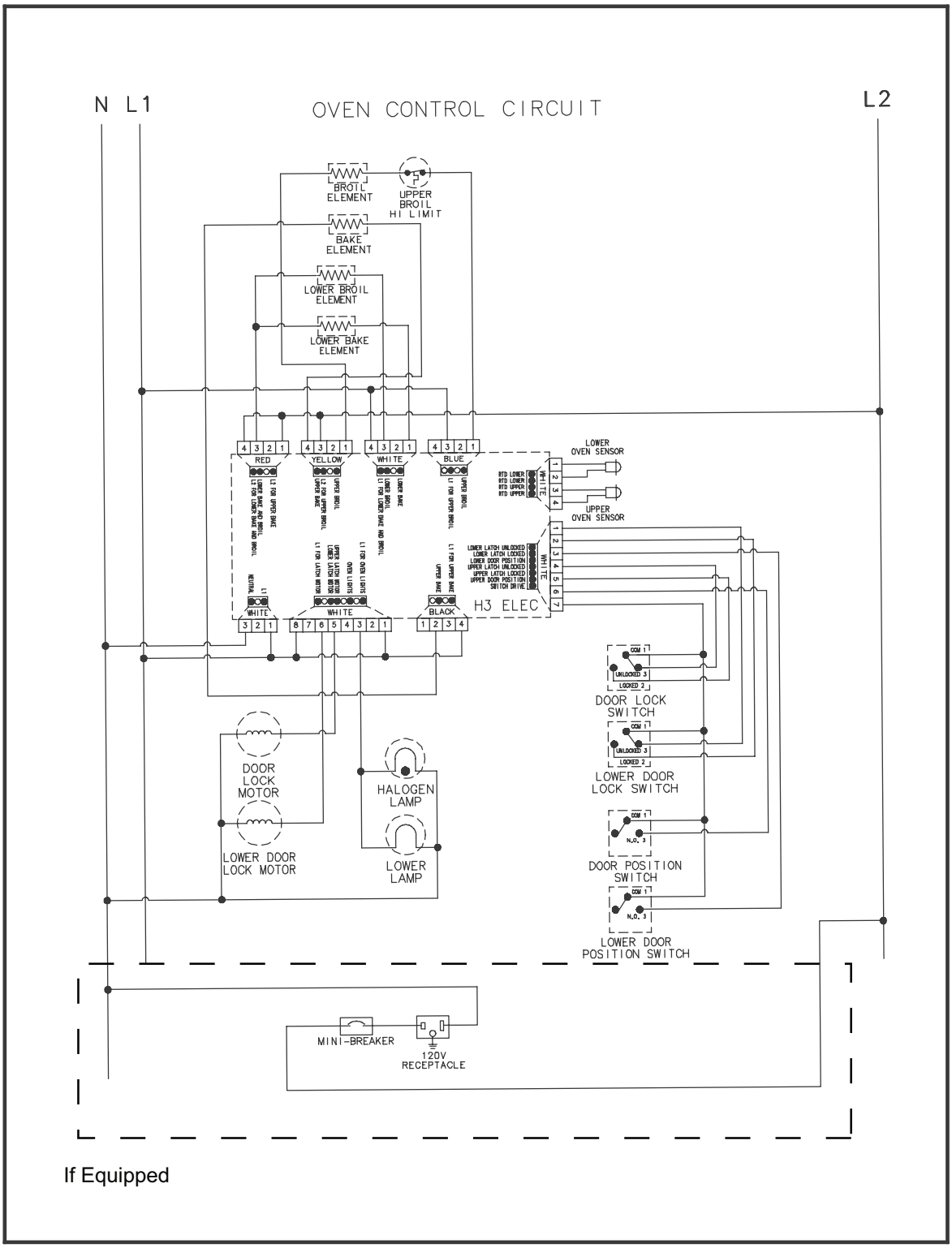
To avoid risk of electrical shock, personal injury or death; disconnect power and gas to range before servicing, unless testing requires power and/or gas.



Wiring Diagram and Schematic 16026151 16023459 16027360 16027359

⚠ WARNING

To avoid risk of electrical shock, personal injury or death; disconnect power to oven before servicing, unless testing requires power.

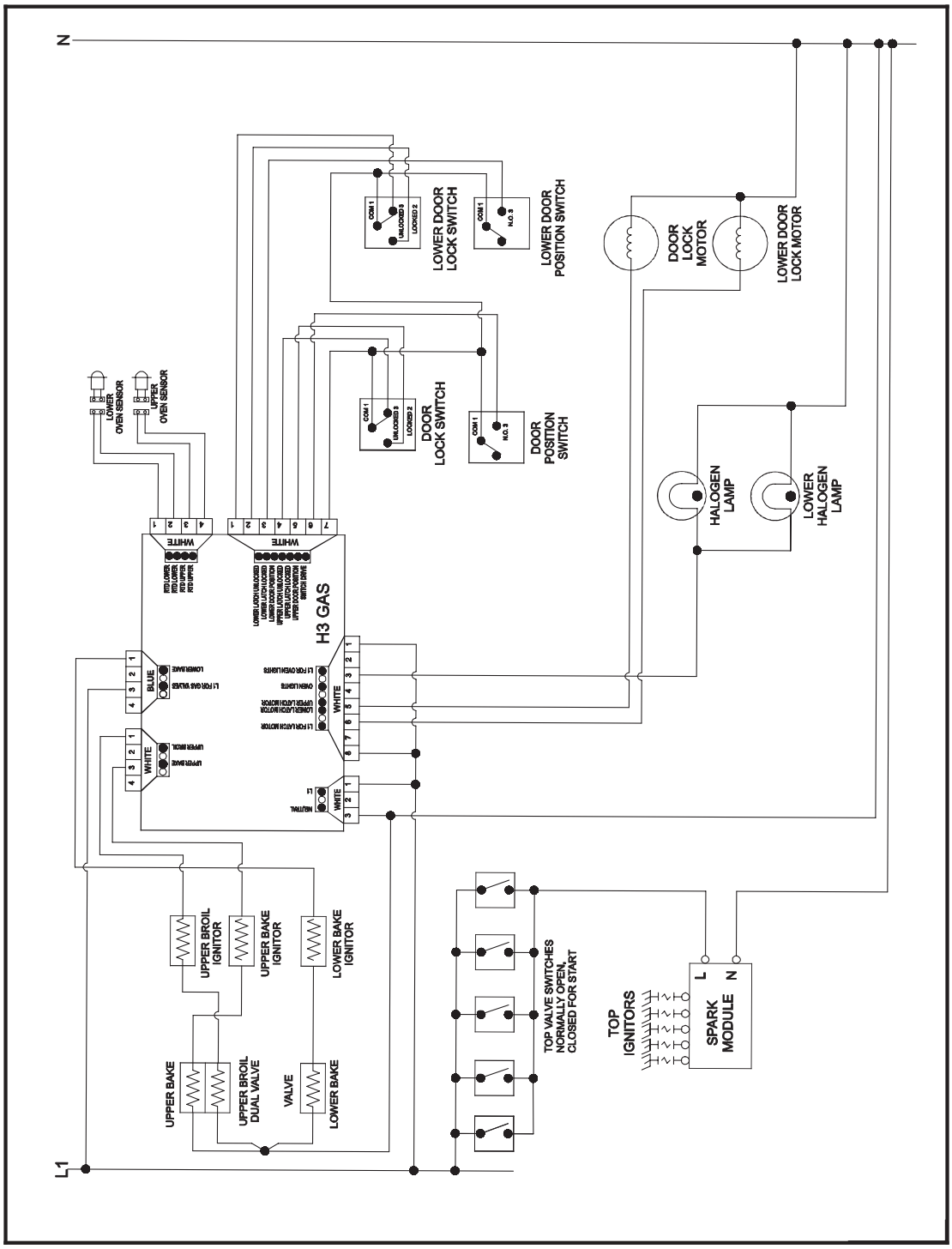


If Equipped

Wiring Diagram and Schematic 16027363

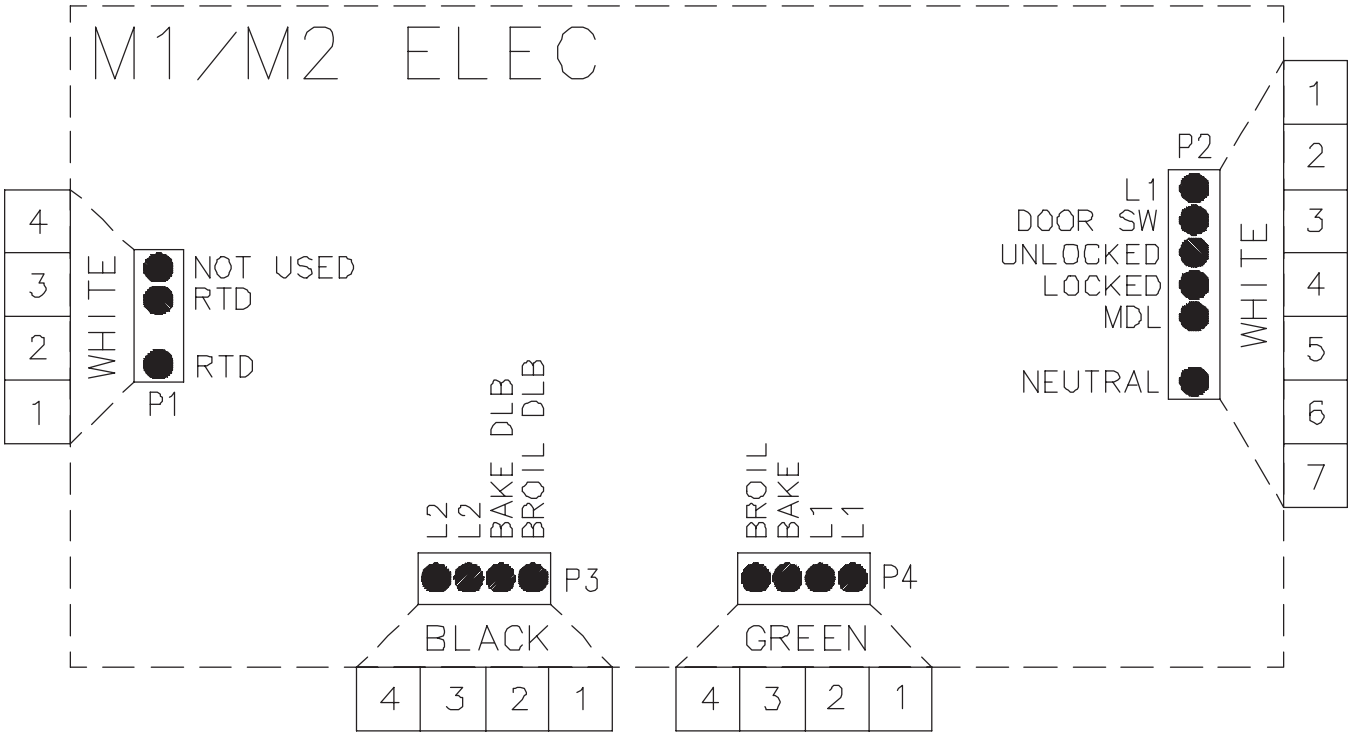
⚠ WARNING

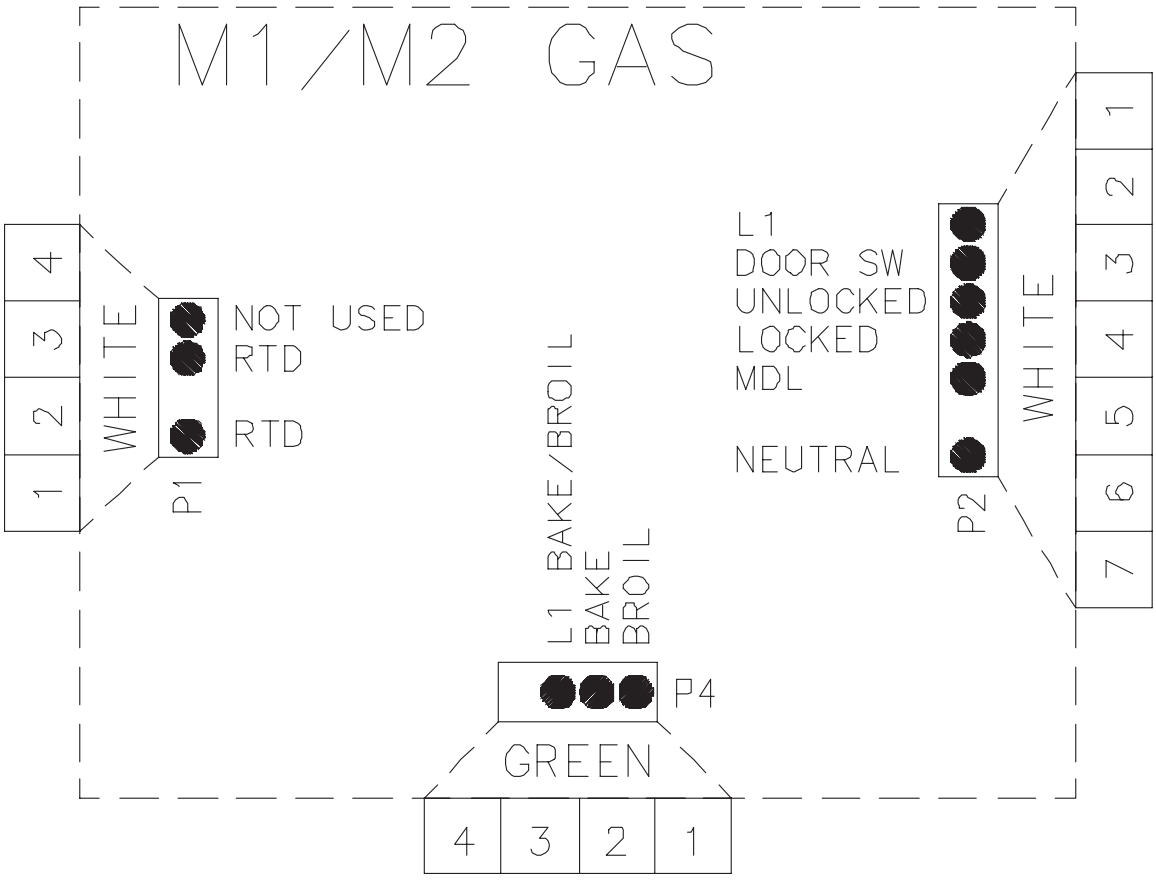
To avoid risk of electrical shock, personal injury or death; disconnect power and gas to range before servicing, unless testing requires power and/or gas.



M1 / M2 CONTROLS

Pin Out Locations





"Quick Test" Mode for Electronic Range Control

Follow procedure below to use the quick test mode. Entries must be made within 32 seconds of each other or the control will exit the quick test mode.

1. **Press and hold *CANCEL*** and ***BROIL*** pads for 3 seconds.
2. Once the control has entered the "Quick Test" mode, release both pads.
3. Press each of the following pads indicated in the table below.

NOTE: First time one of following pads are pressed it will activate the response. The second time the pad is pressed it will deactivate the response.

NOTE: This mode can only be entered within the first 5 minutes after power up.

NOTE: If the temperature sensor is greater than 400° F and the Quick Test mode will be disabled if the temperature sensor reaches 400° F while under test.

Display will indicate the following:

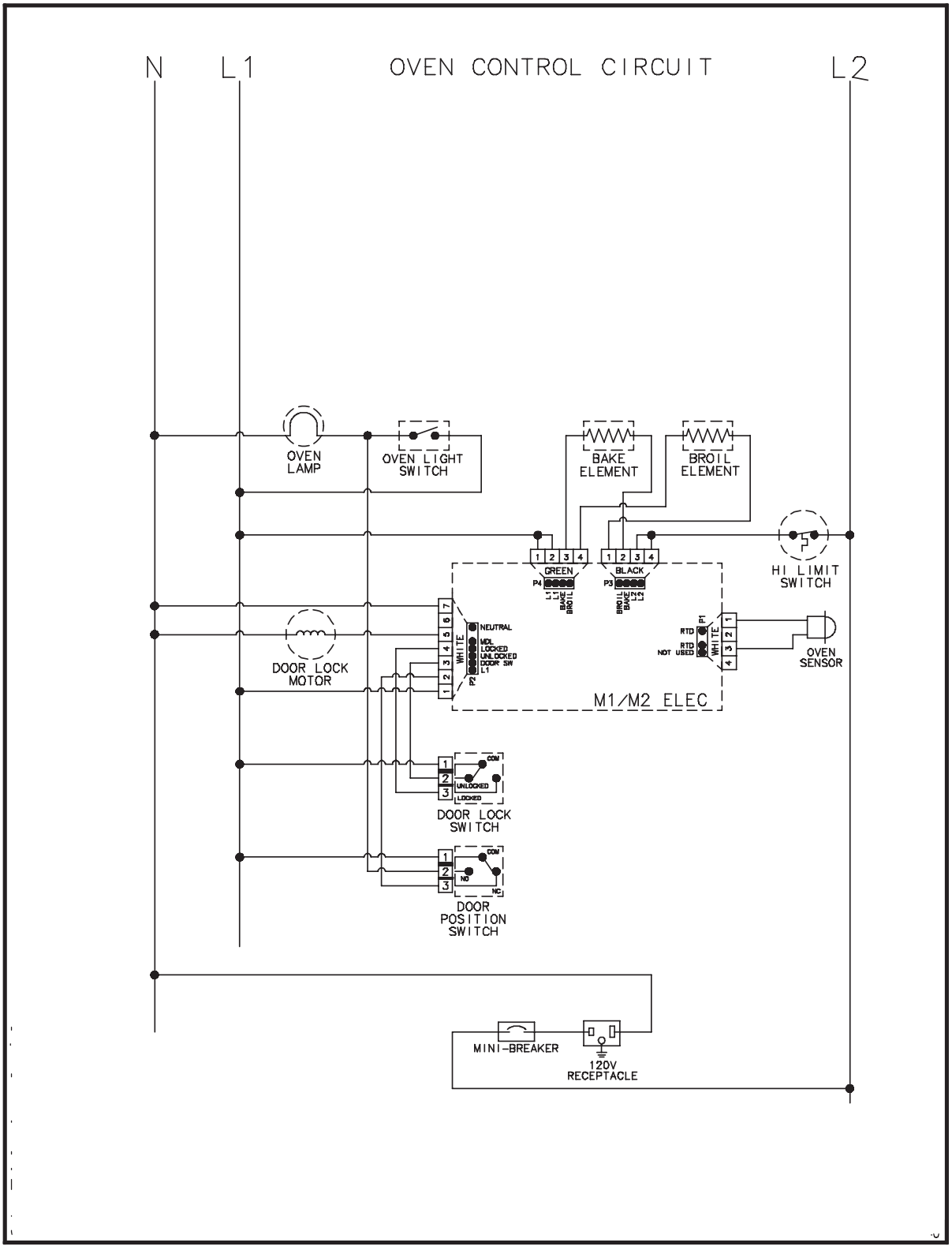
Key	Operation
[Bake]	**Bake** relay activated
[Broil]	**Broil** relay activated
[Keep Warm]	**DLB** relay activated
[Cook&Hold]	Last Diagnostic Code displayed
[Clean]	Beep sounds
[Delay] (M1)	**EEPROM Version Number** displayed
[Timer]	**Main Code Version Number** displayed
[Clock]	**All Segments** On
[More +]	**Even Segments** On
[Less –]	**Odd Segments** On
[Cancel]	End Factory Test Mode

Diagnostic Code Display Mode can only be started within 30 seconds when powering up the control.

Wiring Diagram and Schematic 16023318 16023319 16023320 16023323

⚠ WARNING

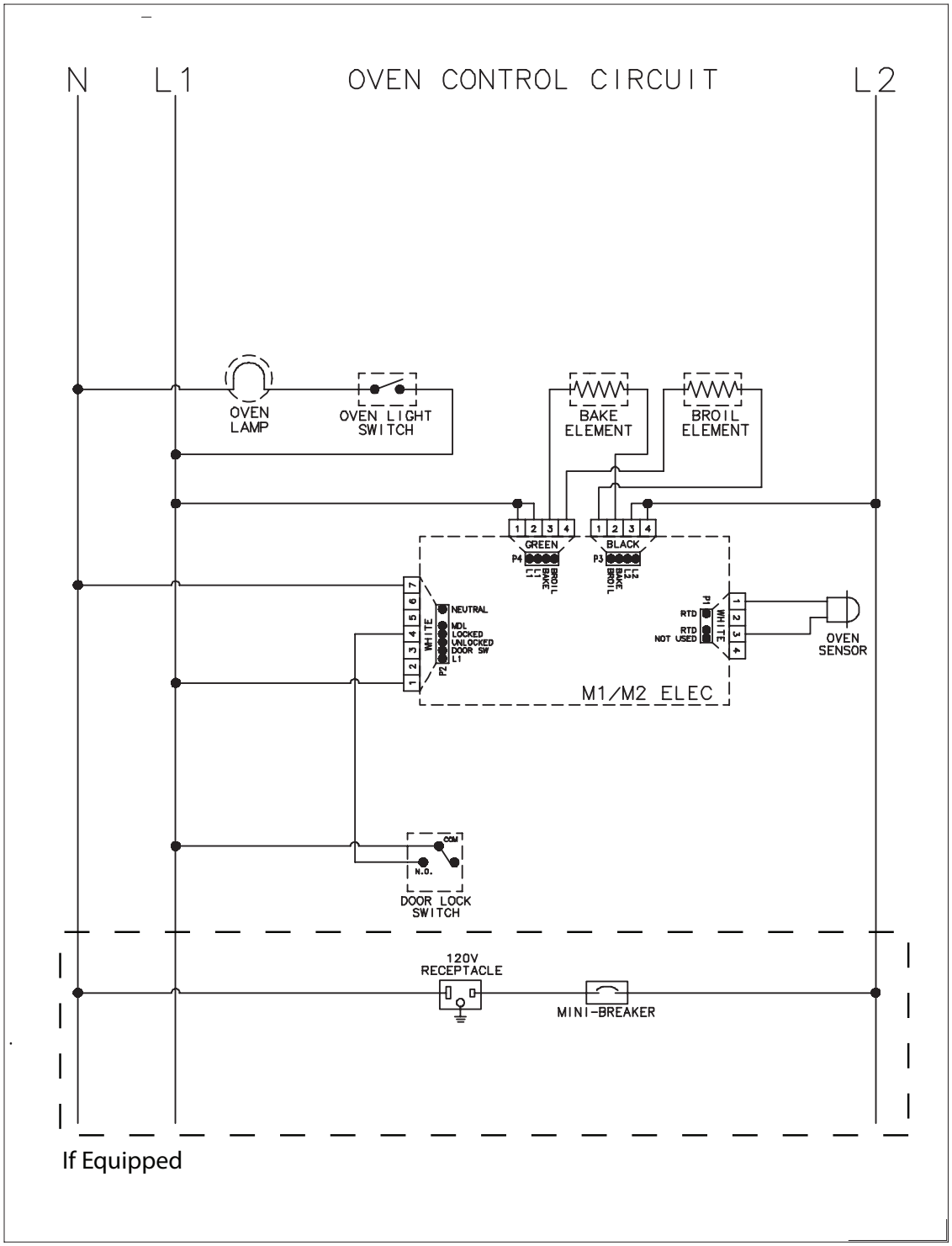
To avoid risk of electrical shock, personal injury, or death, disconnect power to range before servicing, unless testing requires power.



Wiring Diagram and Schematic

⚠ WARNING

To avoid risk of electrical shock, personal injury or death; disconnect power to oven before servicing, unless testing requires power.

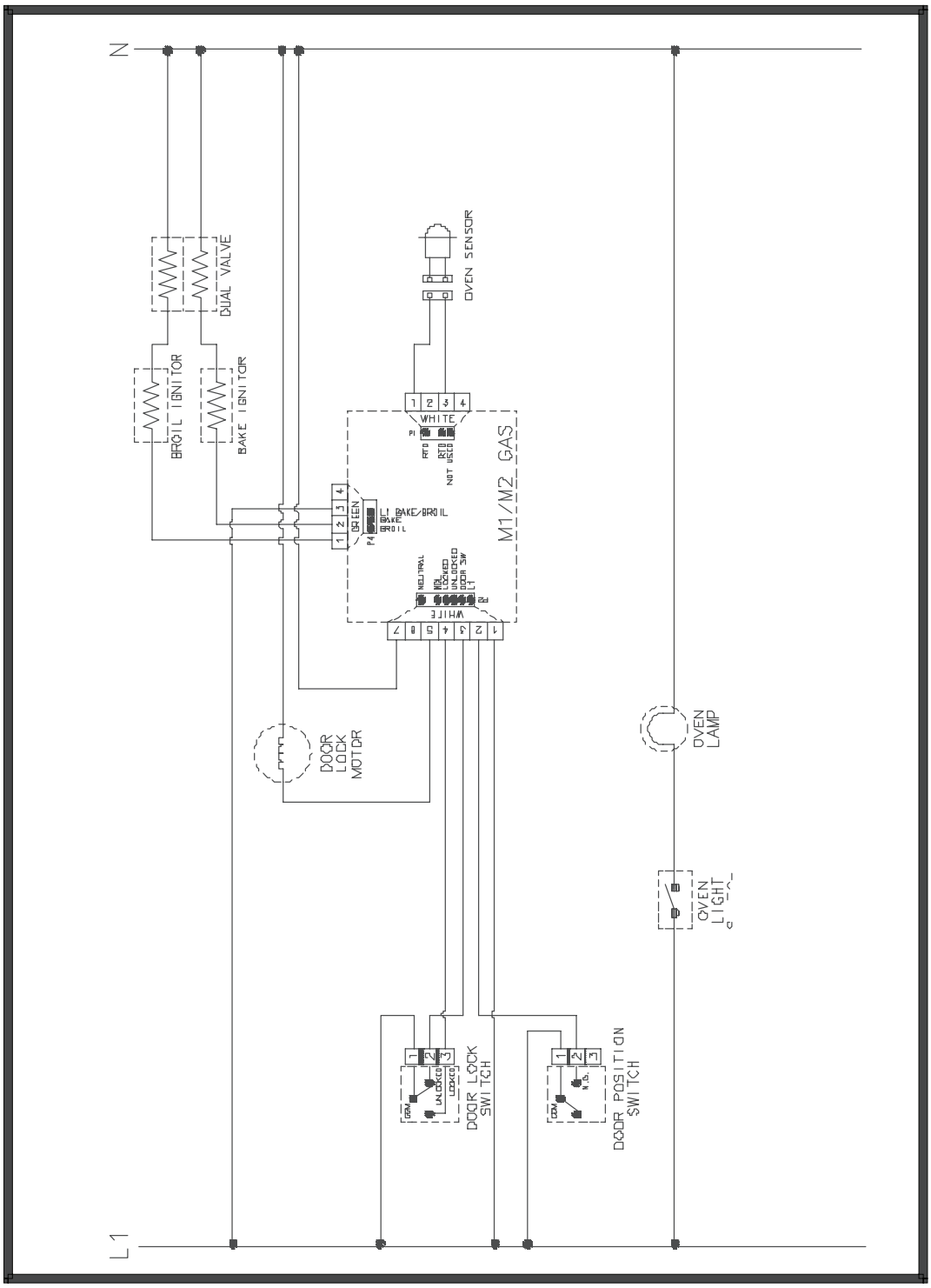


16023542 16026105 16026484 16026485 16026543 16026686 16026688 16026689 16026691 16026813
16026978 16027074 16027075 16027144 16023530 16023531 16023534 16023539 16023481

Wiring Diagram and Schematic 16022504 16022500

⚠ WARNING

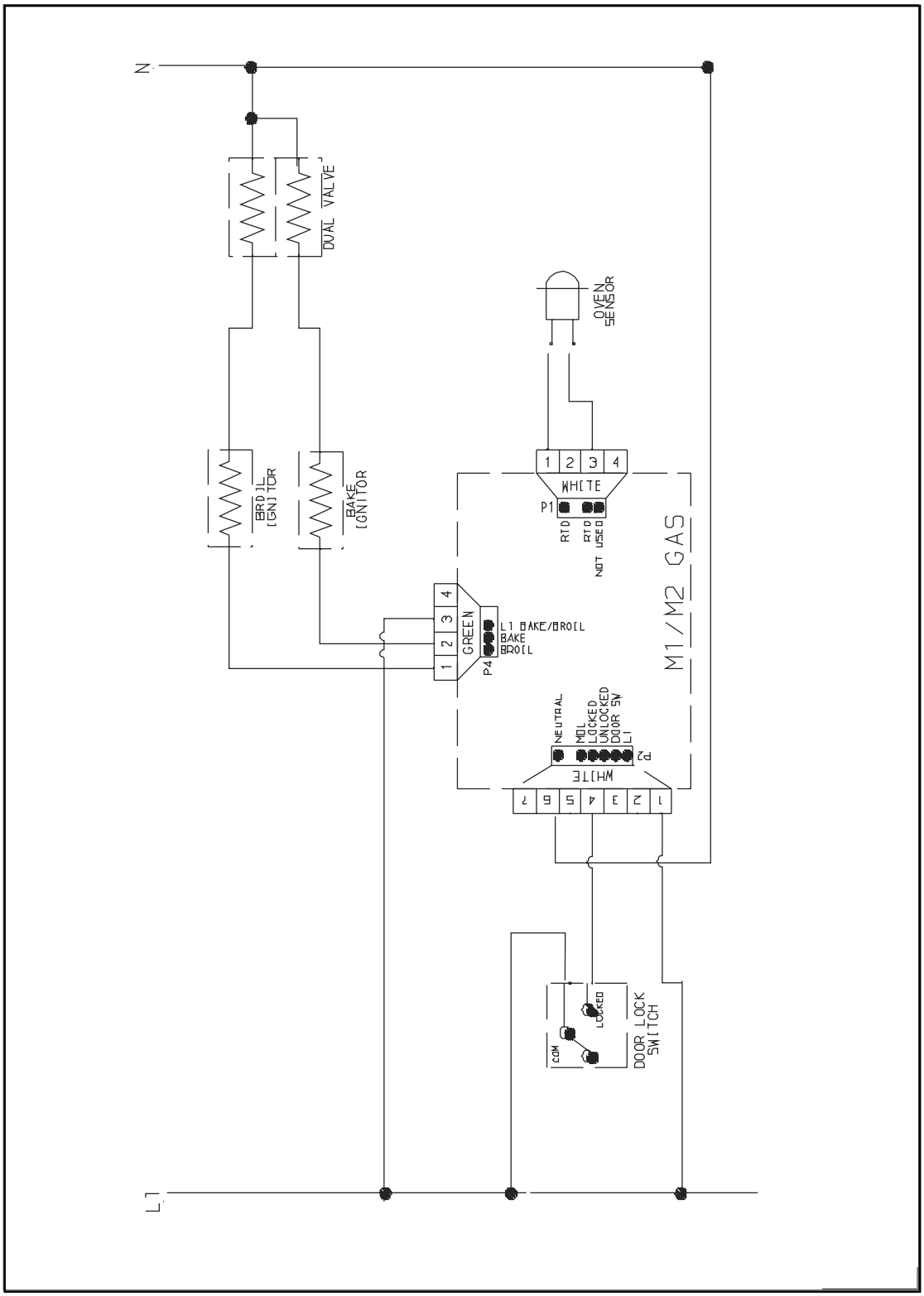
To avoid risk of electrical shock, personal injury, or death, disconnect power to oven before servicing, unless testing requires it.



Wiring Diagram and Schematic 16026684 16023524 16026551 16026683

WARNING

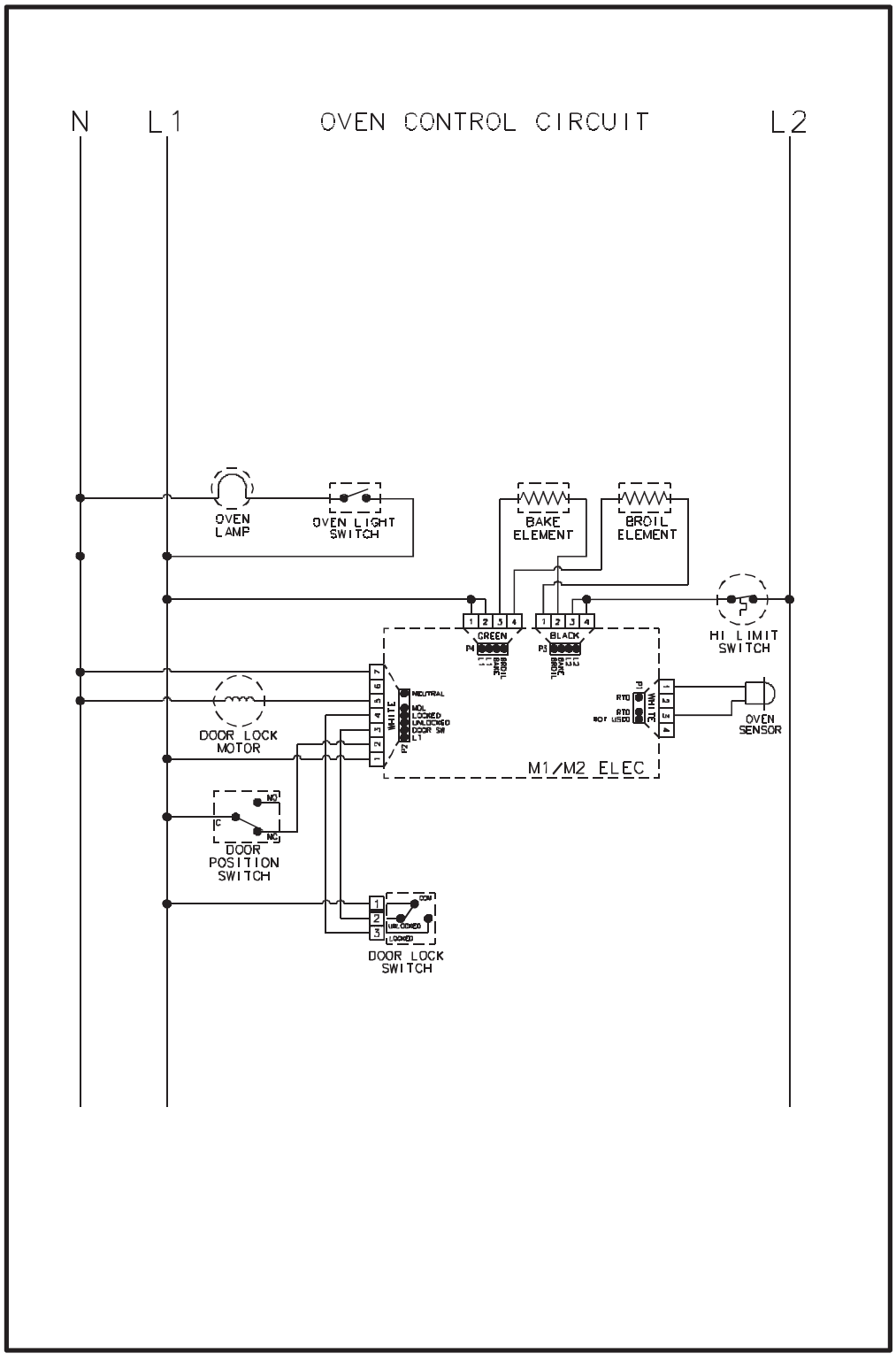
To avoid risk of electrical shock, personal injury, or death, disconnect power and gas to range before servicing, unless testing requires power and/or gas.



Wiring Diagram and Schematic 16025648 16025645 16025646 16025649 16025650

⚠ WARNING

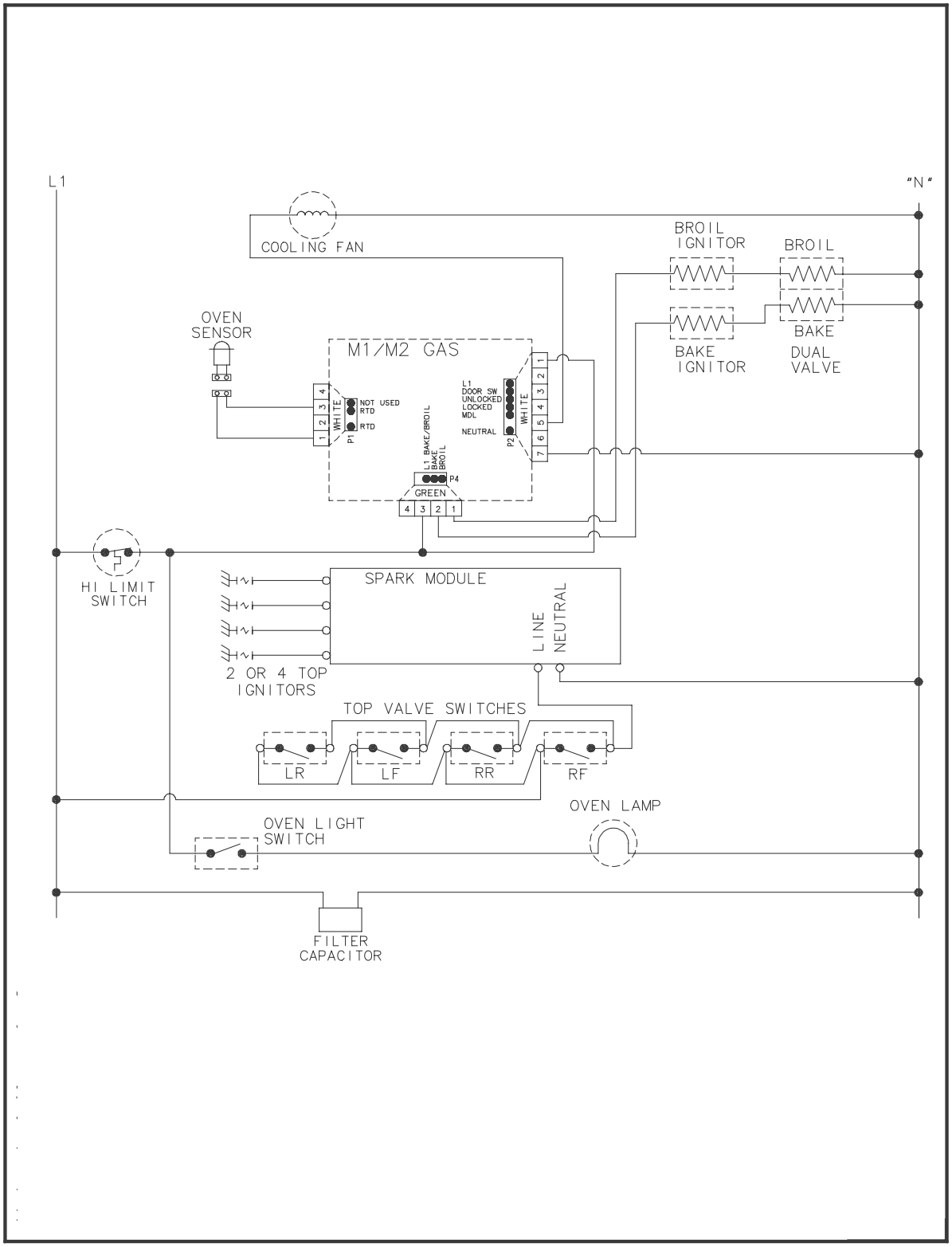
To avoid risk of electrical shock, personal injury or death; disconnect power to oven before servicing, unless testing requires power.



Wiring Diagram and Schematic 16026289

WARNING

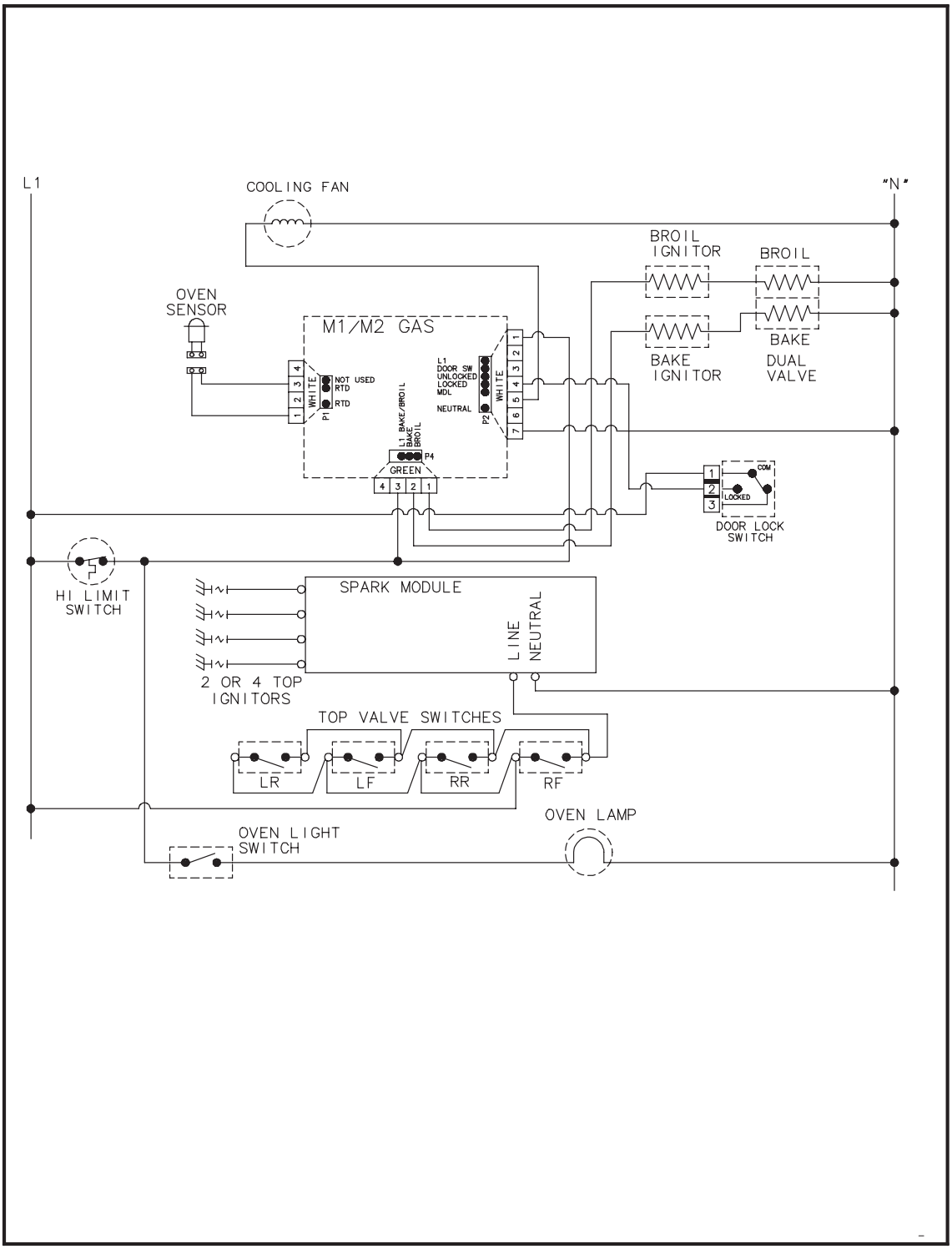
To avoid risk of electrical shock, personal injury or death; disconnect power and gas to range before servicing, unless testing requires power and/or gas.



Wiring Diagram and Schematic 16026290

⚠ WARNING

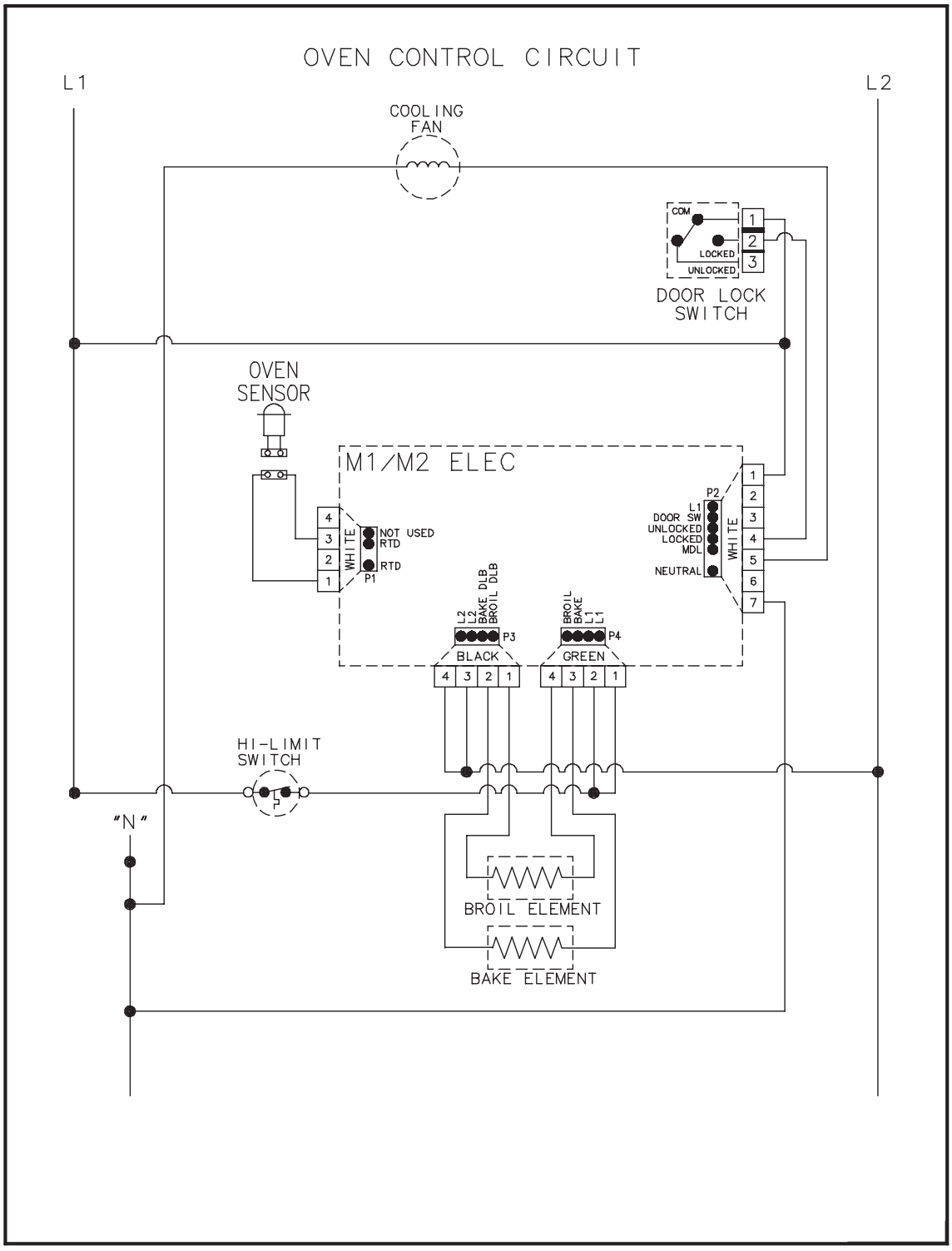
To avoid risk of electrical shock, personal injury or death; disconnect power and gas to range before servicing, unless testing requires power and/or gas.



Wiring Diagram and Schematic 16026294

⚠ WARNING

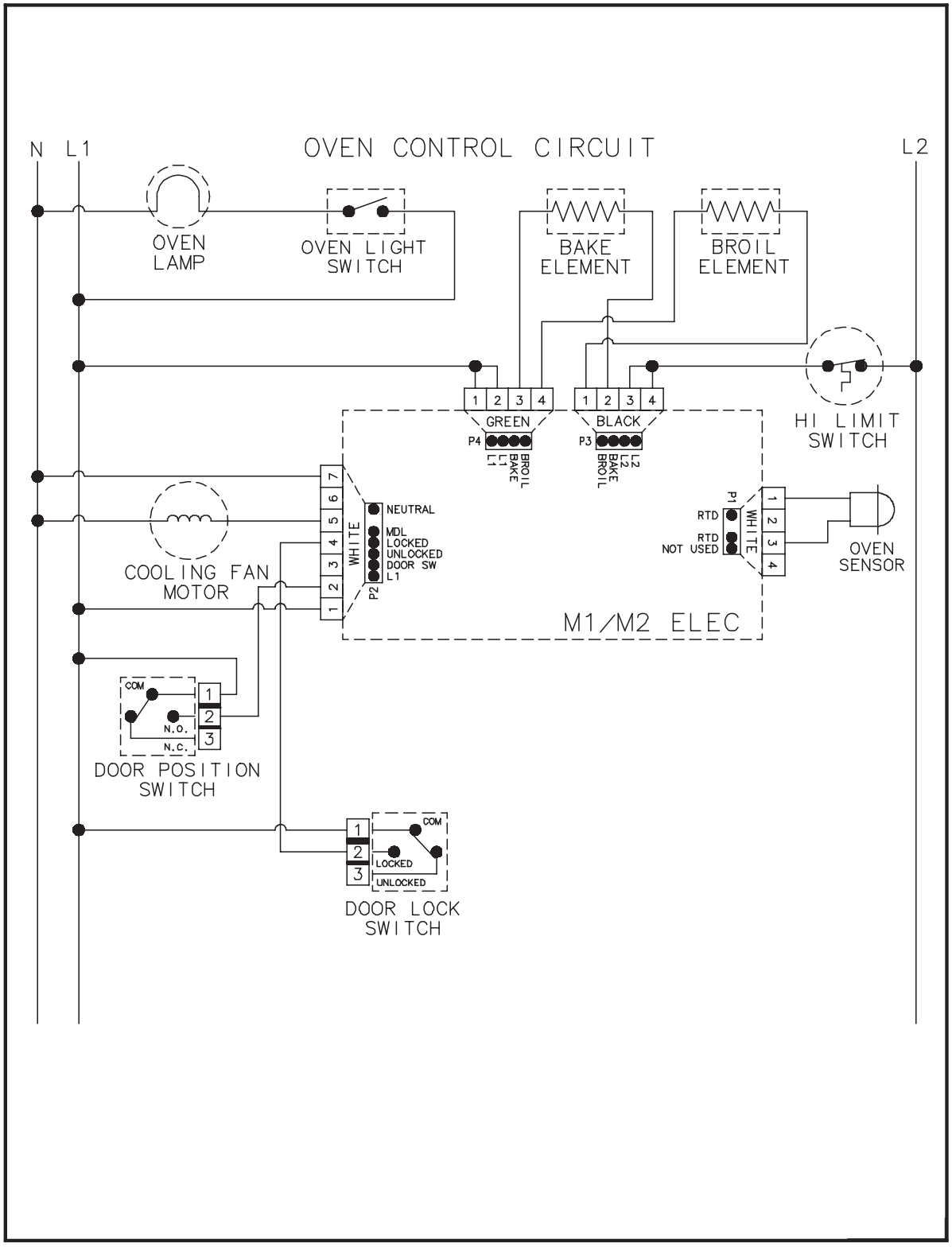
To avoid risk of electrical shock, personal injury or death; disconnect power to range before servicing, unless testing requires power.



Wiring Diagram and Schematic 16026295

WARNING

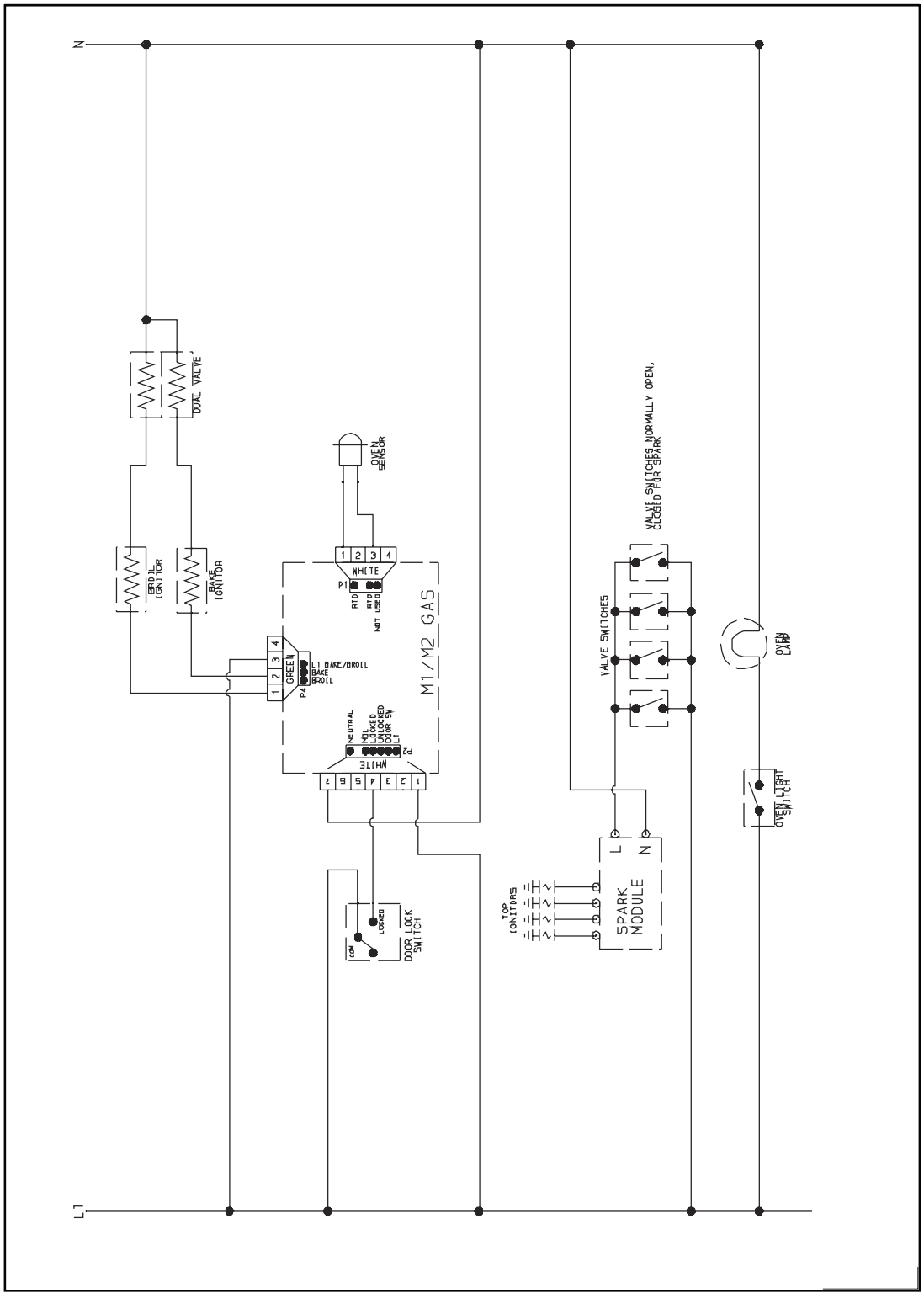
To avoid risk of electrical shock, personal injury or death; disconnect power to range before servicing, unless testing requires power.



Wiring Diagram and Schematic 16026791 16026106 16026792

⚠ WARNING

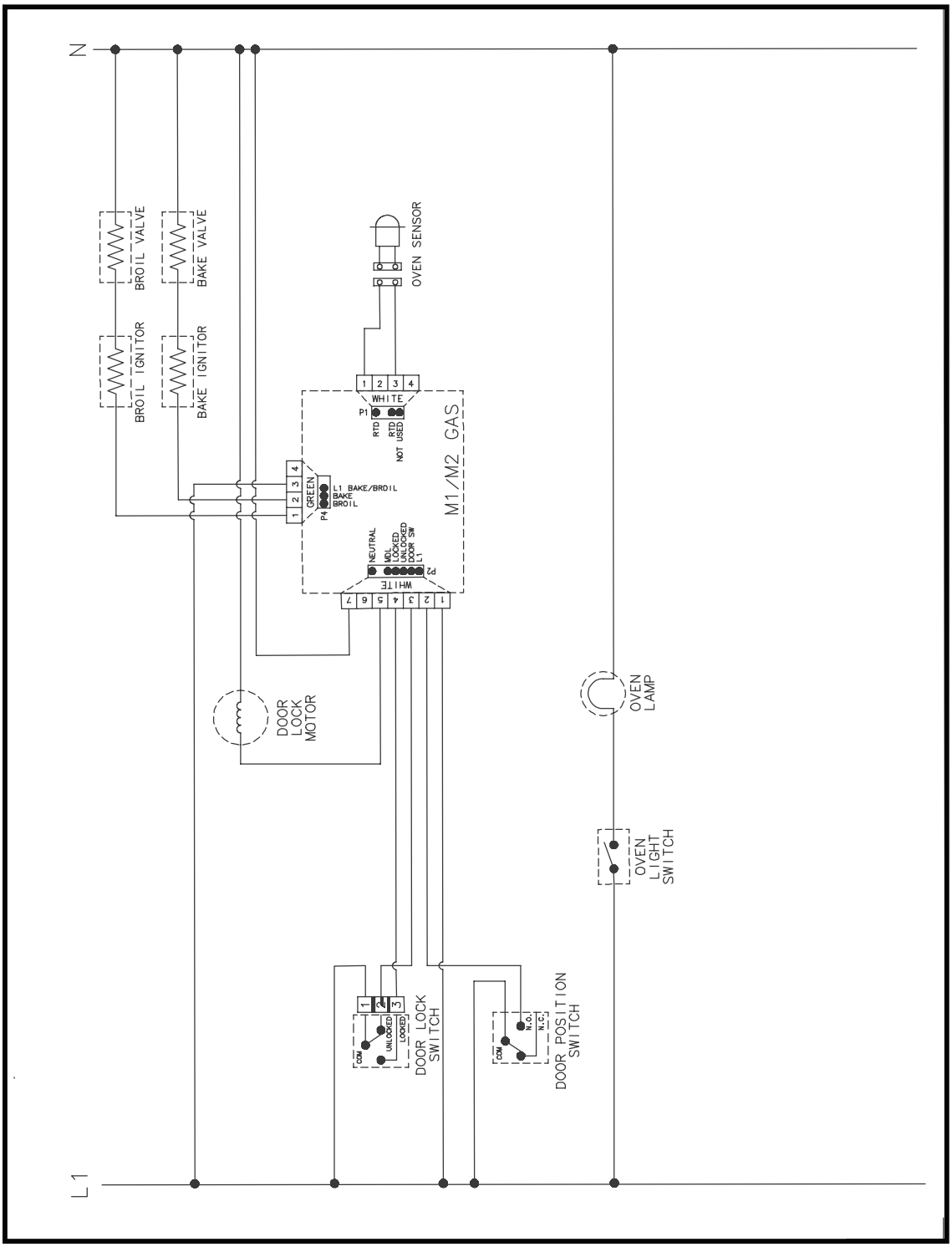
To avoid risk of electrical shock, personal injury, or death, disconnect power and gas to range before servicing, unless testing requires power and/or gas.



Wiring Diagram and Schematic 16026797

⚠ WARNING

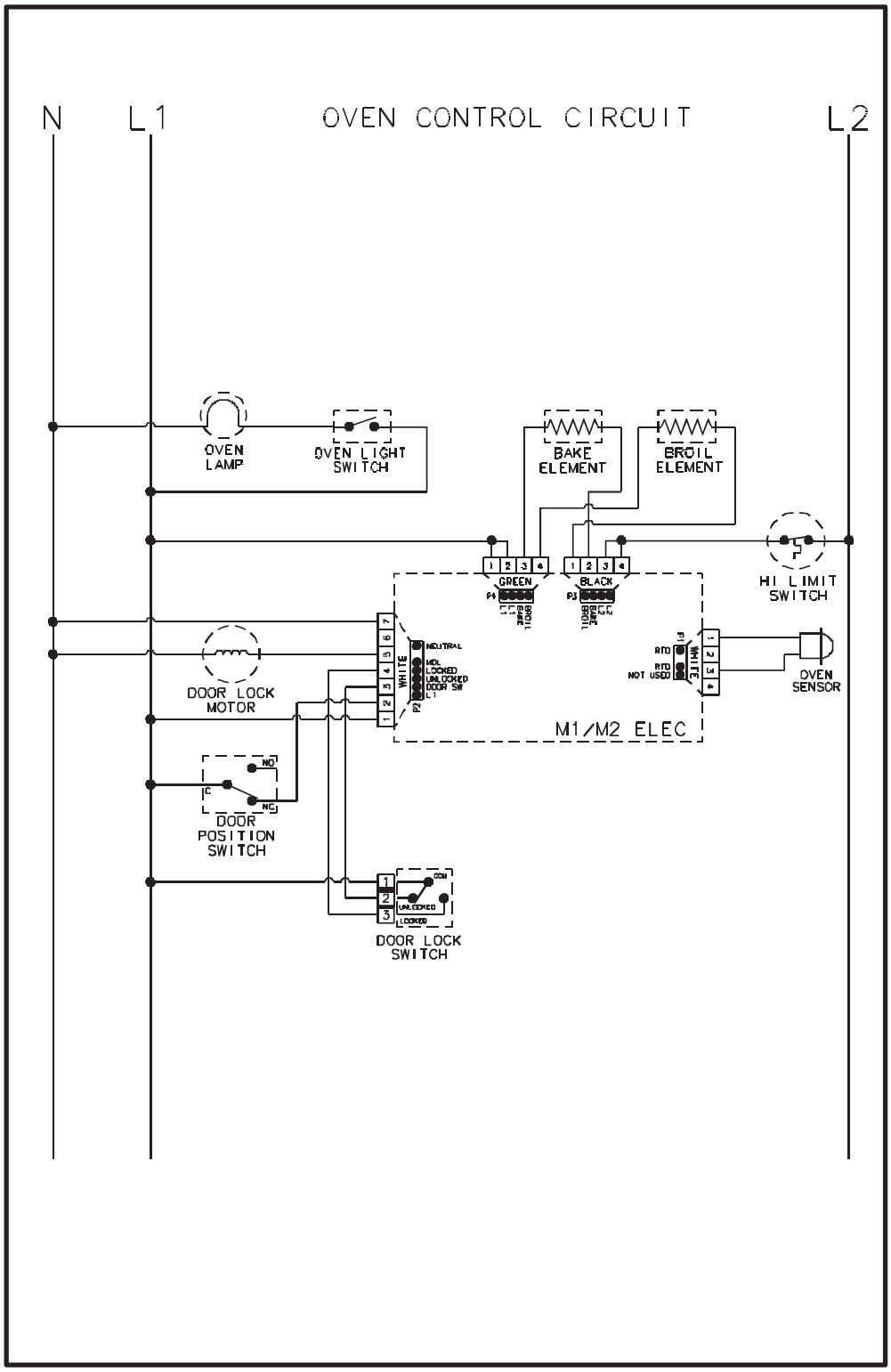
To avoid risk of electrical shock, personal injury, or death, disconnect power and gas to range before servicing, unless testing requires power and/or gas.



Wiring Diagram and Schematic 16026853

⚠ WARNING

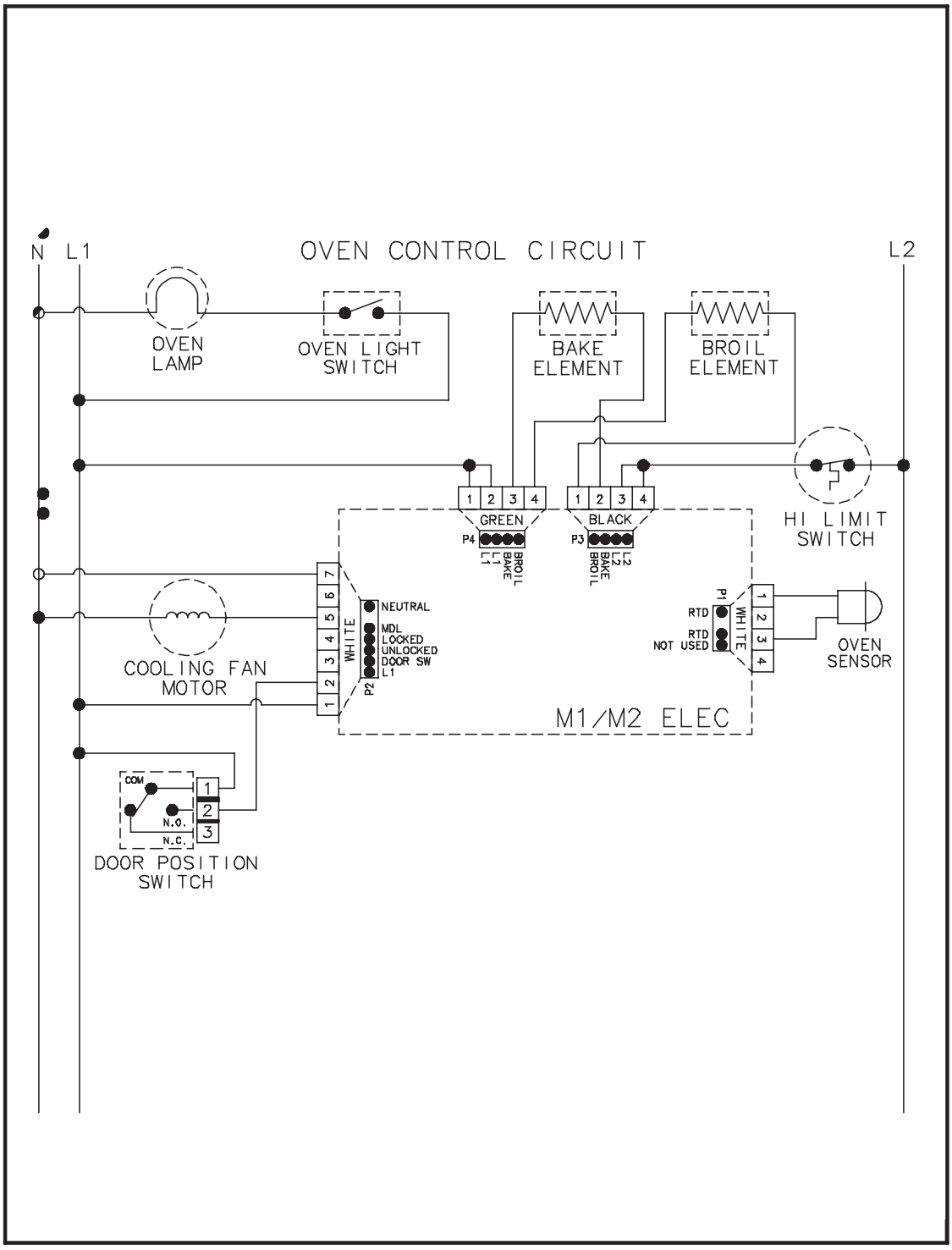
To avoid risk of electrical shock, personal injury or death; disconnect power to range before servicing, unless testing requires power.



Wiring Diagram and Schematic 16027221

WARNING

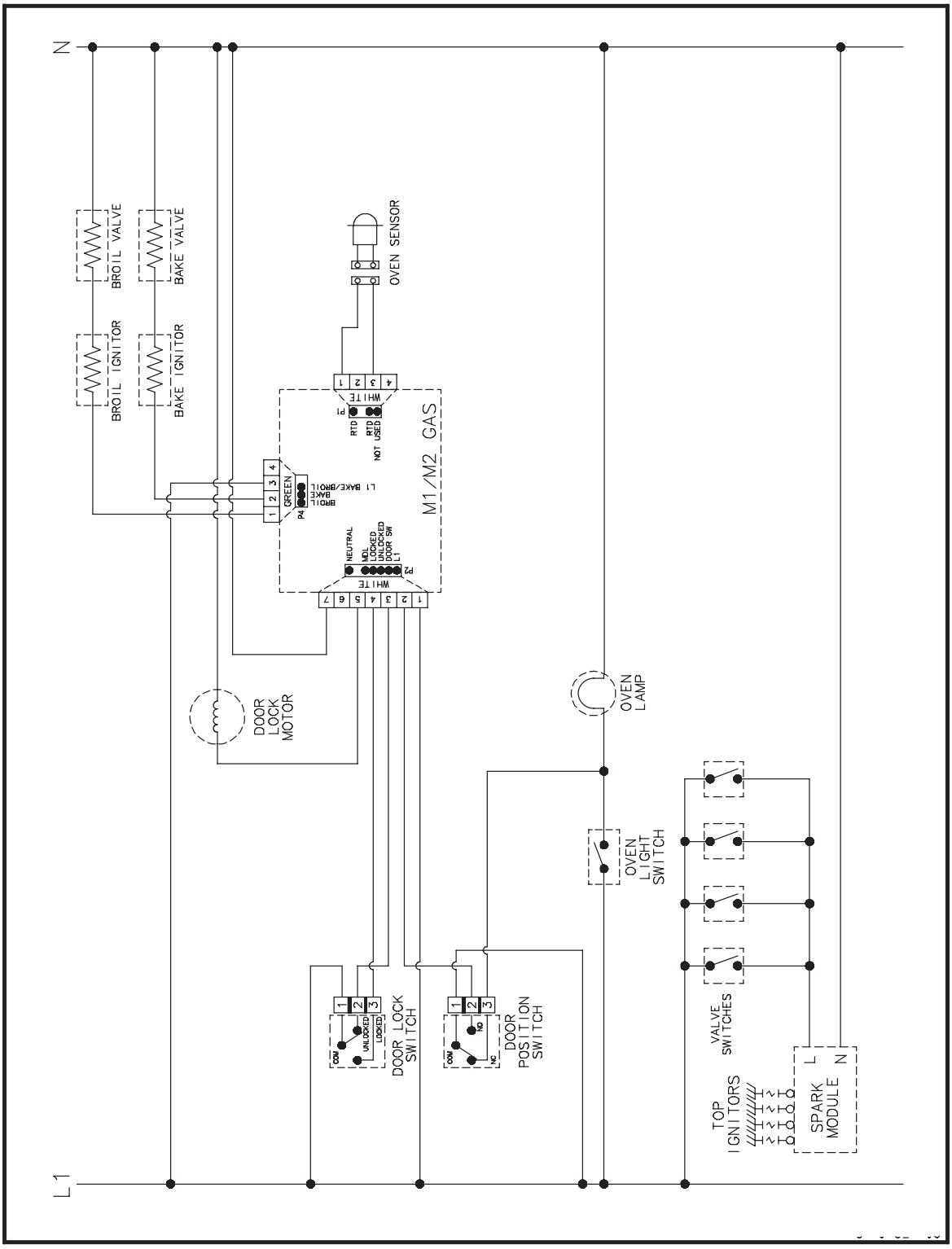
To avoid risk of electrical shock, personal injury or death; disconnect power to range before servicing, unless testing requires power.



Wiring Diagram and Schematic 16027222 16027246

⚠ WARNING

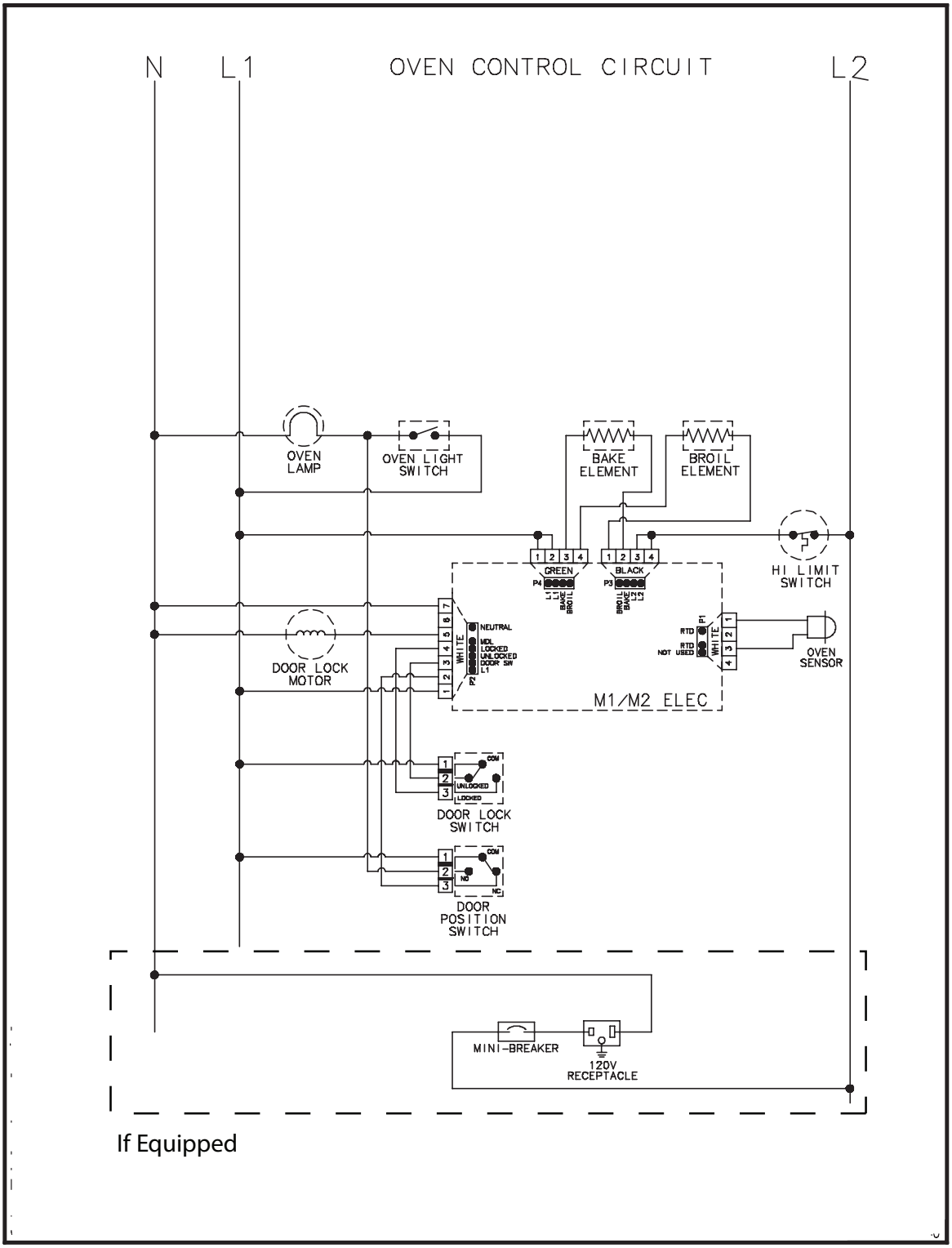
To avoid risk of electrical shock, personal injury, or death, disconnect power and gas to range before servicing, unless testing requires power and/or gas.



Wiring Diagram and Schematic

⚠ WARNING

To avoid risk of electrical shock, personal injury, or death, disconnect power to range before servicing, unless testing requires power.

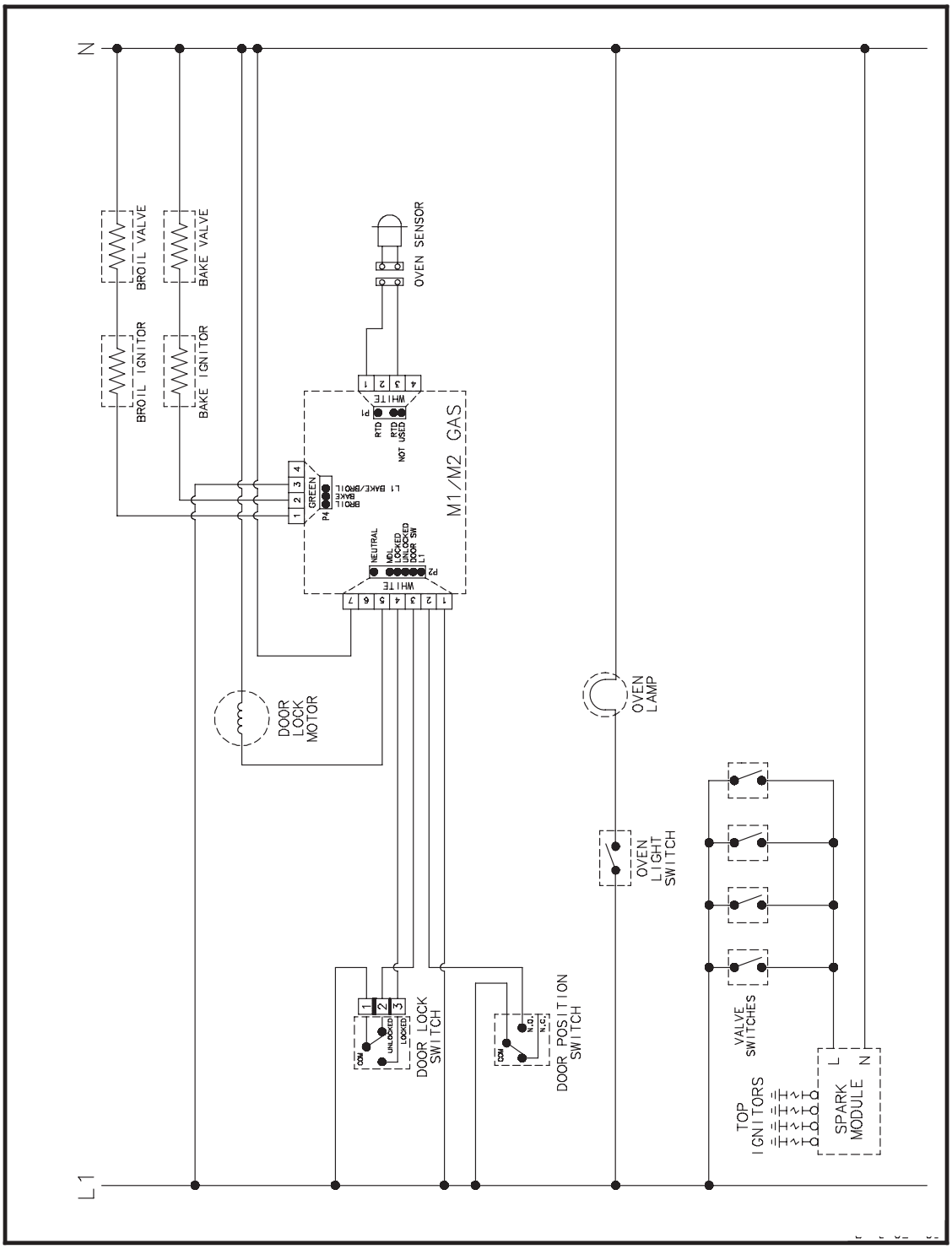


16027227 16027230 16027231 16027236 16027237 16027245 16027247

Wiring Diagram and Schematic 16027225

⚠ WARNING

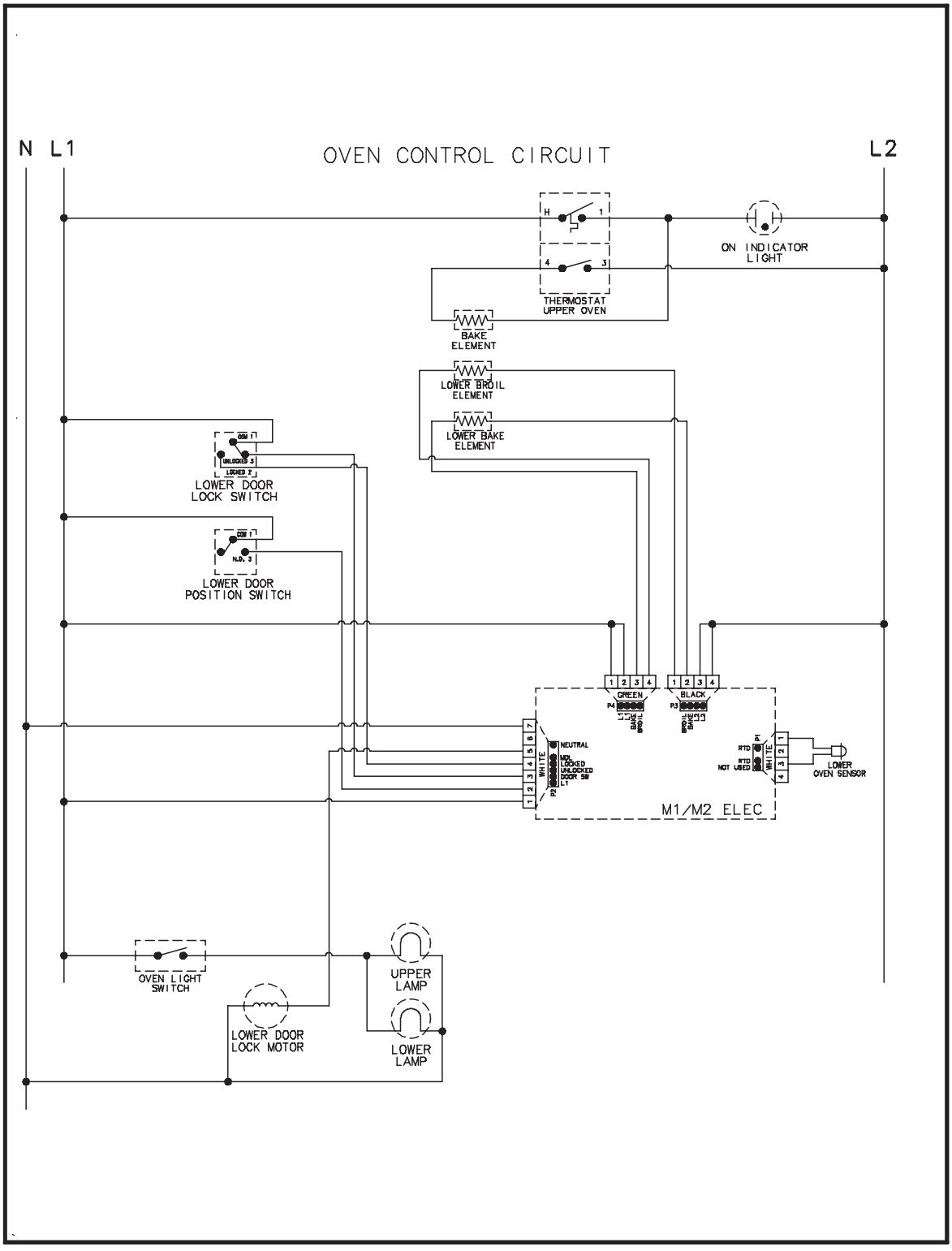
To avoid risk of electrical shock, personal injury or death; disconnect power and gas to range before servicing, unless testing requires power and/or gas.



Wiring Diagram and Schematic 16027255

⚠ WARNING

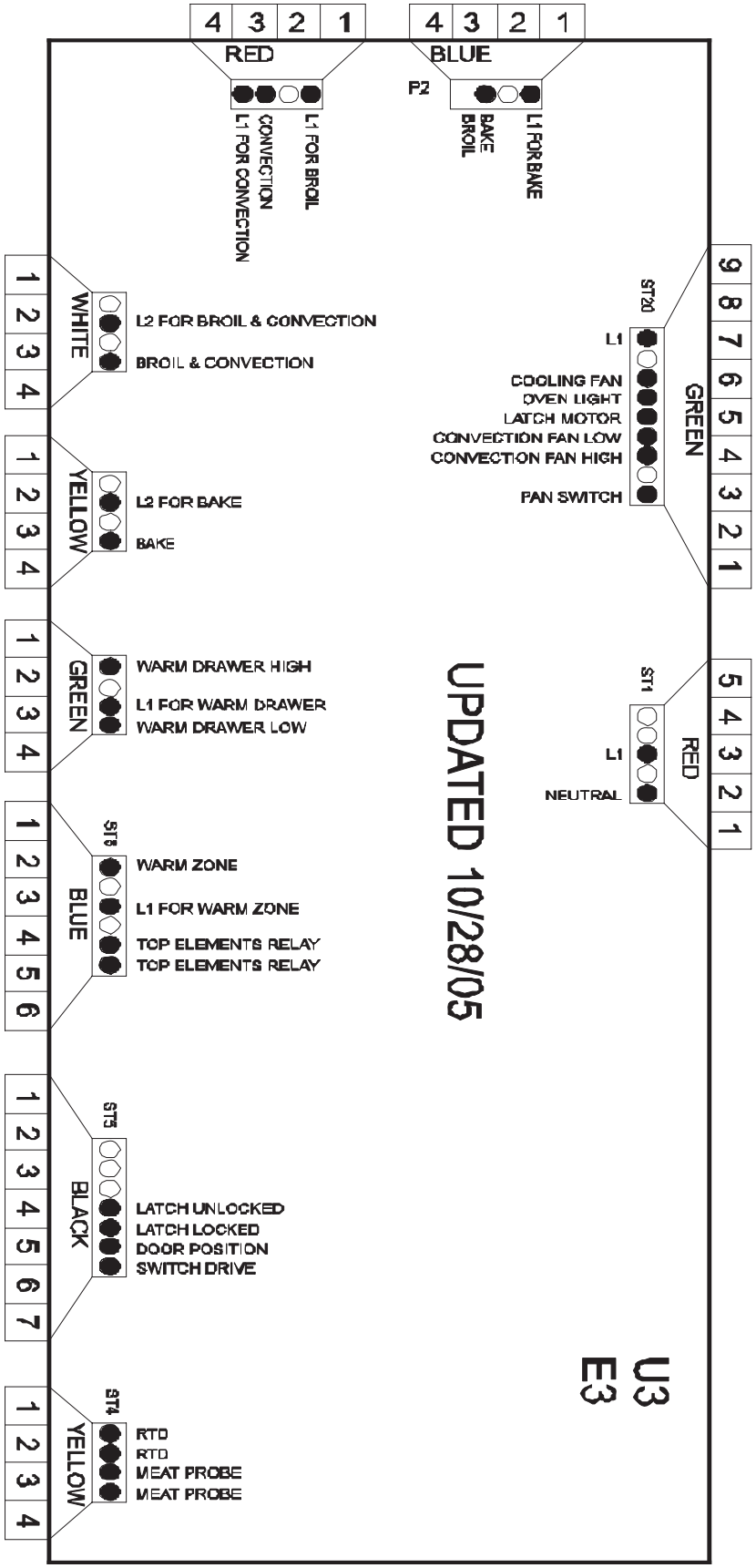
To avoid risk of electrical shock, personal injury or death; disconnect power to range before servicing, unless testing requires power.



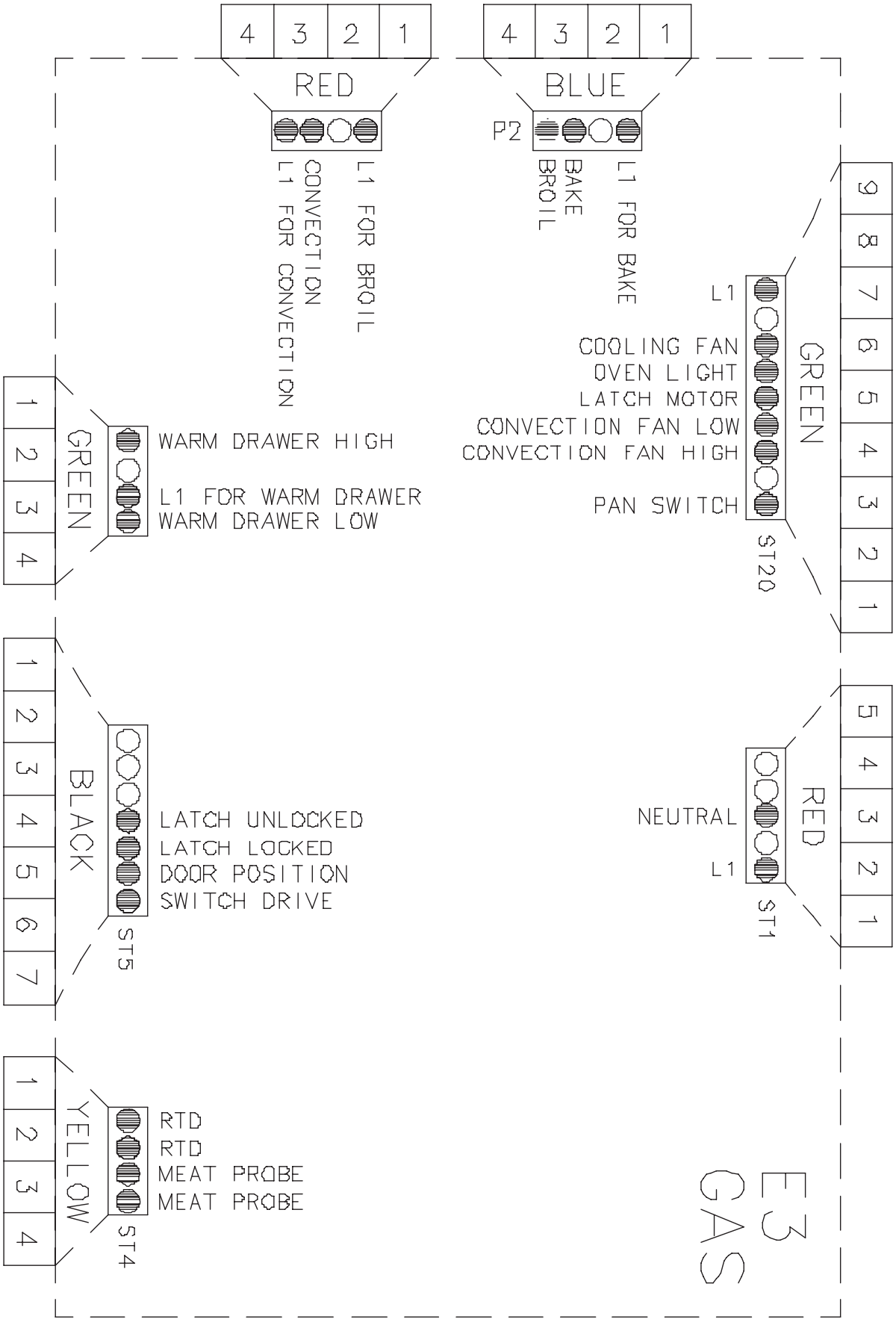
— NOTES —

EOC III CONTROLS

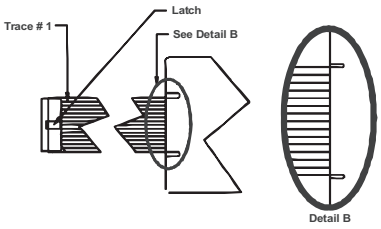
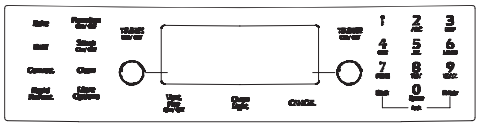
Pin Out Locations



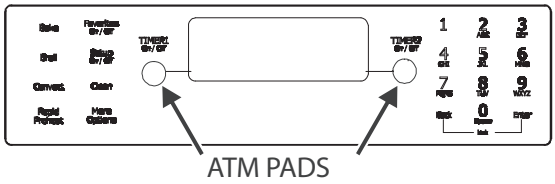
Pin Out Locations



Hidden Functions

Control Component	Test Procedure	Results		
Switch membrane assembly **NOTE:** To avoid equipment damage, use caution when checking electronic control circuitry. **JGS9900BD***	Closed circuitry resistance (defined as continuity): 2000 Max Ω Pins 1 & 10 are shorted together for control configuration purposes  	**Pad**	**Trace**	**Measurement**
		1	2 & 7	Continuity
		2	2 & 8	Continuity
		3	2 & 9	Continuity
		4	2 & 10	Continuity
		5	2 & 11	Continuity
		6	2 & 12	Continuity
		7	3 & 6	Continuity
		8	3 & 7	Continuity
		9	3 & 8	Continuity
		0	2 & 6	Continuity
		Cancel	4 & 9	Continuity
		Bake	4 & 10	Continuity
		Broil	4 & 11	Continuity
		Convect	5 & 9	Continuity
		Clean	5 & 7	Continuity
		Favorites	4 & 12	Continuity
		Rapid Preheat	5 & 10	Continuity
		Vent Fan	5 & 11	Continuity
		More Options	5 & 8	Continuity
		Setup	5 & 6	Continuity
		ATM 1	4 & 6	Continuity
		ATM 2	4 & 7	Continuity
		Back	3 & 9	Continuity
		Enter	3 & 10	Continuity
		Timer 1	3 & 11	Continuity
		Timer 2	3 & 12	Continuity
		Oven Light	4 & 8	Continuity

Electronic Oven Control (EOC) III Testing Procedures



ELECTRONIC OVEN CONTROL (EOC) III TESTING/PROGRAMMING PROCEDURES		
Feature	**Access Procedure**	**Modification Procedure**
Control Reset Resets control to factory default values.	Press the **Setup** pad, then press the right **ATM** pad until SERVICE displays. Press the left **ATM** pad to select SERVICE menu options.	Press and hold the **Back** and **Enter** pads for 5 seconds to enter SERVICE menu options. Press the right **ATM** pad to scroll to CONTROL RESET. Press the left **ATM** pad to select CONTROL RESET, then press the left **ATM** pad again to reset the control logic. Press **Setup** to exit.
Oven Temperature Adjustment Determines oven cavity offset temperature (range from -35° F to +35° F, or -21° C to +21° C).	Press the **Setup** pad, then press the right **ATM** pad until TEMP ADJUST displays. Press the left **ATM** pad to select oven TEMP ADJUSTMENT settings.	Enter the offset temperature setting desired using the digits pads. Press the right **ATM** pad for + temperature adjustment, or the left **ATM** pad for – temperature adjustment. Press 0 to reset control back to no temperature adjustment. Wait 3 seconds for the control to accept the request. Press **Setup** to exit.
Sabbath Mode Based on the Jewish guidelines for Sabbath/Holiday requirements.	Press the **Setup** pad, then press the right **ATM** pad until SABBATH displays. Press the left **ATM** pad to select SABBATH settings.	Press the left **ATM** pad to select Manual Sabbath mode, or the right **ATM** pad to select Auto Sabbath mode. Press the left **ATM** pad to turn on Sabbath mode, or the right **ATM** pad to turn off Sabbath mode. Press **Setup** to exit.

Hidden Functions

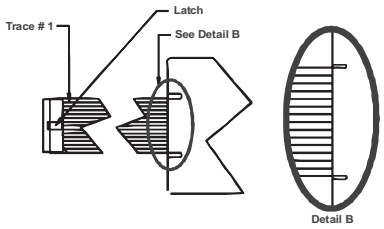
Feature	Access Procedure	Modification Procedure
Time Options Determines control time, day of week, 12/24 hour clock.	Press the **Setup** pad, then the left **ATM** pad to select TIME OPTIONS.	Press the right **ATM** pad to scroll to the desired function to modify.
Time Set Determines time of day to display on control.	Press the **Setup** pad, then the left **ATM** pad, then the left **ATM** pad again to set the time of day clock.	Enter the correct time using the digits pads and press **Enter**. Press the left **ATM** pad to select AM or the right **ATM** pad to select PM. Press **Setup** to exit.
Day of Week Determines day of week (Monday thru Sunday) to display on control	Press the **Setup** pad, then the left **ATM** pad, then press the right **ATM** pad until DAY displays. Press the left **ATM** pad to set the day of the week.	Press the right **ATM** pad until the correct day displays, then press the left **ATM** pad to select. Press **Setup** to exit.
12/24-Hour Clock Display Determines 12-hour or 24-hour clock display on control.	Press the **Setup** pad, then the left **ATM** pad, then press the right **ATM** pad until 12/24HR displays. Press the left **ATM** pad to select 12/24 HR clock.	Press the left **ATM** pad to select 12-hour clock, or the right **ATM** pad to select 24-hour clock. Press **Setup** to exit.
Clock & Day Display Disable Determines if time of day and day of week will display on control.	Press the **Setup** pad, then press the right **ATM** pad until DISABLE displays. Press the left **ATM** pad to select DISABLE settings.	Press the left **ATM** pad to select TIME, or the right **ATM** pad to scroll to DAY, then press the left **ATM** pad. Press the left **ATM** pad to turn display on or the right **ATM** pad to turn display off. Press **Setup** to exit.
Language Display Determines language display on control (English, French, Spanish).	Press the **Setup** pad, then press the right **ATM** pad until LANGUAGE displays. Press the left **ATM** pad to set LANGUAGE settings.	Press the right **ATM** pad until the desired language displays (English, French, Spanish). Press the left **ATM** pad. Press **Setup** to exit.
C/F (Celsius/Fahrenheit) Display Determines temperature display on control (C or F).	Press the **Setup** pad, then press the right **ATM** pad until C/F displays. Press the left **ATM** pad to select C/F settings.	Press the left **ATM** pad to select Celsius or the right **ATM** pad to select Fahrenheit. Press **Setup** to exit.
Auto Convection When enabled, reduces the Convection Bake and Pastry temperatures by 25° F (-3.9° C).	Press the **Setup** pad, then press the right **ATM** pad until AUTO CONVECT displays. Press the left **ATM** pad to select AUTO CONVECT settings.	Press the left **ATM** pad to turn on auto convect, or the right **ATM** pad to turn off auto convect. Press **Setup** to exit.
Tone Options Determines cook tones, timer tones and volume settings.	Press the **Setup** pad, then press the right **ATM** pad until TONES displays. Press the left **ATM** pad to select TONES options.	Press the right **ATM** pad to scroll to the desired tone to modify. Press **Setup** to exit.
12-Hour Shutoff Disables 12-hour shuto ff, allowing the oven to operate indefinitely.	Press the **Setup** pad, then press the right **ATM** pad until 12HR Shutoff displays. Press the left **ATM** pad to select 12-HOUR SHUTOFF settings.	Press the left **ATM** pad to turn on 12-hour shutoff, or the right **ATM** pad to turn off 12-hour shuto ff. Press **Setup** to exit.
208/240 V Setting Determines range operating voltage (208 or 240 VAC).	Press the **Setup** pad, then press the right **ATM** pad until 208/240 displays. Press the left **ATM** pad to select 208/240 V settings.	Press the left **ATM** pad to select 208 VAC, or the right **ATM** pad to select 240 VAC. Press **Setup** to exit.
Cook Tones Determines the number and duration of cook time reminder chimes.	Press the **Setup** pad, then press the right **ATM** pad until TONES displays. Press the left **ATM** pad. Press the left **ATM** pad again to select COOK TONES settings.	Press the left **ATM** pad to select 1 – 30 (1 chime every 30 seconds after the initial 4 chimes), or press the right **ATM** pad to scroll to 1 – 60 (1 chime every 60 seconds after the initial 4 chimes) or 1 BEEP (no additional chimes after the initial 4 chimes). Press the left **ATM** pad to select the desired setting. Press **Setup** to exit.
Timers Tones Determines the number and duration of timer reminder chimes.	Press the **Setup** pad, then press the right **ATM** pad until TONES displays. Press the left **ATM** pad. Press the right **ATM** pad to scroll to TIMERS TONES. Press the left **ATM** pad to select TIMERS TONES settings.	Press the left **ATM** pad to select 2 – 30, or 2 chimes every 30 seconds for up to 5 minutes (after the initial chime), or press the right **ATM** pad to scroll to 2 – 60, or 2 chimes every 60 seconds for up to 30 minutes (after the initial chime), or 1 BEEP (no additional chimes after the initial chime). Press the left **ATM** pad to select the desired setting. Press **Setup** to exit.
Volume Determines volumes of cook and timer tones.	Press the **Setup** pad, then press the right **ATM** pad until TONES displays. Press the left **ATM** pad to select VOLUME settings.	Press the right **ATM** pad until VOLUME displays. Press the left **ATM** pad. Press the left **ATM** pad to select HIGH, or the right **ATM** pad to scroll to MEDIUM or LOW. Press the left **ATM** pad to select. Press **Setup** to exit.

Hidden Functions

Feature	Access Procedure	Modification Procedure
Energy Saver Mode Enables a 1 watt standby feature. If no pad is pressed within 5 minutes, the control enters into a sleep mode.	Press the **Setup** pad, then press the right **ATM** pad until ENERGY SAVER displays. Press the left **ATM** pad to select ENERGY SAVER mode settings.	Press the left **ATM** pad to enter the energy saver mode or the right **ATM** pad to exit the energy saver mode.
Demo Mode Enables a 1 watt standby feature. If no pad is pressed within 5 minutes, the control enters into a sleep mode.	Press the **Setup** pad, then press the right **ATM** pad until DEMO displays. Press the left **ATM** pad to select DEMO mode settings.	Press the left **ATM** pad to enable the DEMO mode or the right **ATM** pad to exit the DEMO mode. Once the DEMO mode begins, press any key to exit. Press **Setup** to exit, also.
Service Mode Enables access to service menus.	Press the **Setup** pad, then press the right **ATM** pad until SERVICE displays. Press the left **ATM** pad to select SERVICE menu options.	Press and hold the **Back** and **Enter** pads for 5 seconds to enter SERVICE menu options. Press **Setup** to exit.
Test Access Enables access to service menus.	Press the **Setup** pad, then press the right **ATM** pad until SERVICE displays. Press the left **ATM** pad to select SERVICE menu options.	Press and hold the **Back** and **Enter** pads for 5 seconds to enter SERVICE menu options. Press the right **ATM** pad to scroll to TEST menu. Press the left **ATM** pad to select TEST options. Press **Setup** to exit.
Faults Access Displays the 10 most recent faults produced by the controller.	Press the **Setup** pad, then press the right **ATM** pad until SERVICE displays. Press the left **ATM** pad to select SERVICE menu options.	Press and hold the **Back** and **Enter** pads for 5 seconds to enter SERVICE menu options. Press the right **ATM** pad to scroll to the FAULTS menu. Press the left **ATM** pad to select FAULTS options. Press **Setup** to exit.
Software Versions Access Displays the software and EEPROM revision levels.	Press the **Setup** pad, then press the right **ATM** pad until SERVICE displays. Press the left **ATM** pad to select SERVICE menu options.	Press and hold the **Back** and **Enter** pads for 5 seconds to enter SERVICE menu options. Press the right **ATM** pad to scroll to the VERSIONS menu. Press the left **ATM** pad to view. Press **Setup** to exit.
Display Test Illuminates all lamps on the control.	Press the **Setup** pad, then press the right **ATM** pad until SERVICE displays. Press the left **ATM** pad to select SERVICE menu options.	Press and hold the **Back** and **Enter** pads for 5 seconds to enter SERVICE menu options. Press the right **ATM** pad to scroll to DISPLAY TEST. Press the left **ATM** pad. Press **Setup** to exit.
Control Lockout Disables the touch keypad control and lo cks the oven cavity door.	Press the **Back** and **Setup** pads simultaneously for 5 seconds to lock.	Press the **Back** and **Setup** pads simultaneously for 5 seconds to unlock.

COOLING FAN TEMPERATURES		
MODE	**FAN ON TEMP F (C)**	**FAN OFF TEMP F (C)**
Bake	350 (177)	300 (149)
Broil	Six (6) minute delay after cycle started	225 (107)
Clean	Six (6) minute delay after cycle started	225 (107)

Testing the User Interface

Control Component	Test Procedure	Results		
Switch membrane assembly **JES8850BC***	Closed circuitry resistance (defined as continuity): 2000 Max Ω Pins 1 & 9 are shorted together for control configuration purposes  	**Pad**	**Trace**	**Measurement**
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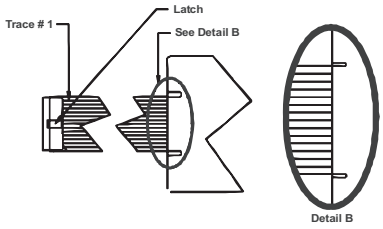
		2	2 & 8	Continuity
		3	2 & 9	Continuity
		4	2 & 10	Continuity
		5	2 & 11	Continuity
		6	2 & 12	Continuity
		7	3 & 6	Continuity
		8	3 & 7	Continuity
		9	3 & 8	Continuity
		0	2 & 6	Continuity
		Cancel	4 & 9	Continuity
		Bake	4 & 10	Continuity
		Broil	4 & 11	Continuity
		Convect	5 & 9	Continuity
		Clean	5 & 7	Continuity
		Favorites	4 & 12	Continuity
		Rapid Preheat	5 & 10	Continuity
		Warm Zone	5 & 12	Continuity
		More Options	5 & 8	Continuity
		Setup	5 & 6	Continuity
		ATM 1	4 & 6	Continuity
		ATM 2	4 & 7	Continuity
		Back	3 & 9	Continuity
		Enter	3 & 10	Continuity
		Timer 1	3 & 11	Continuity
		Timer 2	3 & 12	Continuity
		Oven Light	4 & 8	Continuity

Switch membrane assembly **JES9900BC*** **JES9860BC***	Closed circuitry resistance (defined as continuity): 2000 Max Ω Pins 1 & 10 are shorted together for control configuration purposes  	**Pad**	**Trace**	**Measurement**
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		2	2 & 8	Continuity
		3	2 & 9	Continuity
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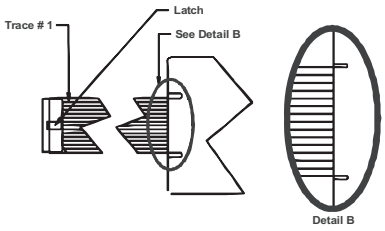
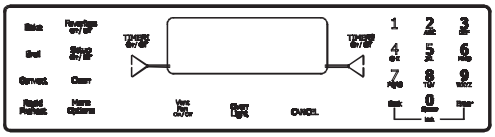
		6	2 & 12	Continuity
		7	3 & 6	Continuity
		8	3 & 7	Continuity
		9	3 & 8	Continuity
		0	2 & 6	Continuity
		Cancel	4 & 9	Continuity
		Bake	4 & 10	Continuity
		Broil	4 & 11	Continuity
		Convect	5 & 9	Continuity
		Clean	5 & 7	Continuity
		Favorites	4 & 12	Continuity
		Rapid Preheat	5 & 10	Continuity
		Vent Fan	5 & 11	Continuity
		More Options	5 & 8	Continuity
		Setup	5 & 6	Continuity
		ATM 1	4 & 6	Continuity
		ATM 2	4 & 7	Continuity
		Back	3 & 9	Continuity
		Enter	3 & 10	Continuity
		Timer 1	3 & 11	Continuity
		Timer 2	3 & 12	Continuity
		Oven Light	4 & 8	Continuity

Control Testing Procedures

Control Component	Test Procedure	Results		
Switch membrane assembly	Closed circuitry resistance (defined as continuity): 2000 Max Ω Pins 1 & 10 are shorted together for control configuration purposes	**Pad**	**Trace**	**Measurement**
		1	2 & 7	Continuity
		2	2 & 8	Continuity
		3	2 & 9	Continuity
		4	2 & 10	Continuity
		5	2 & 11	Continuity
		6	2 & 12	Continuity
		7	3 & 6	Continuity
		8	3 & 7	Continuity
		9	3 & 8	Continuity
		0	2 & 6	Continuity
		Cancel	4 & 9	Continuity
		Bake	4 & 10	Continuity
		Broil	4 & 11	Continuity
		Clean	5 & 7	Continuity
		Convect	5 & 9	Continuity
		Favorites	4 & 12	Continuity
		Rapid Preheat	5 & 10	Continuity
		Vent Fan	5 & 11	Continuity
		More Options	5 & 8	Continuity
		Setup	5 & 6	Continuity
		ATM 1	4 & 6	Continuity
		ATM 2	4 & 7	Continuity
		Back	3 & 9	Continuity
		Enter	3 & 10	Continuity
		Timer 1	3 & 11	Continuity
		Timer 2	3 & 12	Continuity
		Oven Light	4 & 8	Continuity

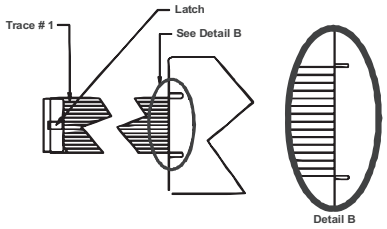




Cooling Fan Temperatures

COOLING FAN TEMPERATURES		
MODE	**FAN ON TEMP F (C)**	**FAN OFF TEMP F (C)**
Bake	300° (148.9°)	275° (135°)
Broil	Immediately	275° (135°)
Clean	Immediately	275° (135°)

Testing the User Interface

Control Component	Test Procedure	Results		
Switch membrane assembly **JDS9865BD***	Closed circuitry resistance (defined as continuity): 2000 Max Ω Pins 1 & 7 are shorted together for control configuration purposes  	**Pad**	**Trace**	**Measurement**
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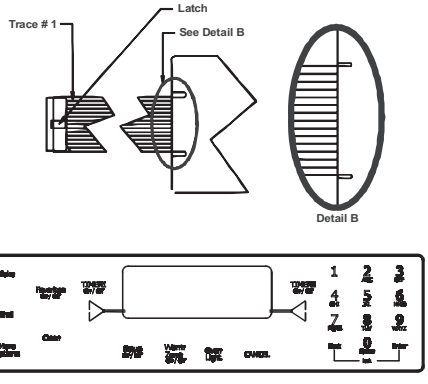
		2	2 & 8	Continuity
		3	2 & 9	Continuity
		4	2 & 10	Continuity
		5	2 & 11	Continuity
		6	2 & 12	Continuity
		7	3 & 6	Continuity
		8	3 & 7	Continuity
		9	3 & 8	Continuity
		0	2 & 6	Continuity
		Cancel	4 & 9	Continuity
		Bake	4 & 10	Continuity
		Broil	4 & 11	Continuity
		Convect	5 & 9	Continuity
		Clean	5 & 7	Continuity
		Favorites	4 & 12	Continuity
		Rapid Preheat	5 & 10	Continuity
		Vent Fan	5 & 11	Continuity
		More Options	5 & 8	Continuity
		Setup	5 & 6	Continuity
		ATM 1	4 & 6	Continuity
		ATM 2	4 & 7	Continuity
		Back	3 & 9	Continuity
		Enter	3 & 10	Continuity
		Timer 1	3 & 11	Continuity
		Timer 2	3 & 12	Continuity
		Oven Light	4 & 8	Continuity

Control Component	Test Procedure	Results		
Switch membrane assembly **JES8750BA***	Closed circuitry resistance (defined as continuity): 2000 Max Ω Pins 1 & 6 are shorted together for control configuration purposes  	**Pad**	**Trace**	**Measurement**
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		2	2 & 8	Continuity
		3	2 & 9	Continuity
		4	2 & 10	Continuity
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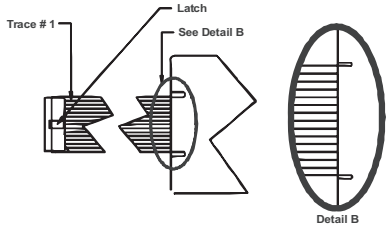
		6	2 & 12	Continuity
		7	3 & 6	Continuity
		8	3 & 7	Continuity
		9	3 & 8	Continuity
		0	2 & 6	Continuity
		Cancel	4 & 9	Continuity
		Bake	4 & 10	Continuity
		Broil	4 & 11	Continuity
		Clean	5 & 7	Continuity
		Favorites	4 & 12	Continuity
		More Options	5 & 8	Continuity
		Warm Zone	5 & 12	Continuity
		Setup	5 & 6	Continuity
		ATM 1	4 & 6	Continuity
		ATM 2	4 & 7	Continuity
		Back	3 & 9	Continuity
		Enter	3 & 10	Continuity
		Timer 1	3 & 11	Continuity
		Timer 2	3 & 12	Continuity
		Oven Light	4 & 8	Continuity

Testing the User Interface

Control Component	Test Procedure	Results		
Switch membrane assembly **JDS8850BD***	Closed circuitry resistance (defined as continuity): 2000 Max Ω Pins 1 & 7 are shorted together for control configuration purposes  	**Pad**	**Trace**	**Measurement**
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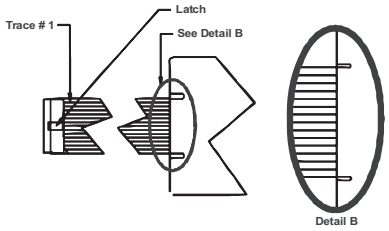
		2	2 & 8	Continuity
		3	2 & 9	Continuity
		4	2 & 10	Continuity
		5	2 & 11	Continuity
		6	2 & 12	Continuity
		7	3 & 6	Continuity
		8	3 & 7	Continuity
		9	3 & 8	Continuity
		0	2 & 6	Continuity
		Cancel	4 & 9	Continuity
		Bake	4 & 10	Continuity
		Broil	4 & 11	Continuity
		Convect	5 & 9	Continuity
		Clean	5 & 7	Continuity
		Favorites	4 & 12	Continuity
		Rapid Preheat	5 & 10	Continuity
		Warming Drawer	5 & 11	Continuity
		More Options	5 & 8	Continuity
		Setup	5 & 6	Continuity
		ATM 1	4 & 6	Continuity
		ATM 2	4 & 7	Continuity
		Back	3 & 9	Continuity
		Enter	3 & 10	Continuity
		Timer 1	3 & 11	Continuity
		Timer 2	3 & 12	Continuity
		Oven Light	4 & 8	Continuity

Switch membrane assembly **JDS9860BD***	Closed circuitry resistance (defined as continuity): 2000 Max Ω Pins 1 & 7 are shorted together for control configuration purposes  	**Pad**	**Trace**	**Measurement**
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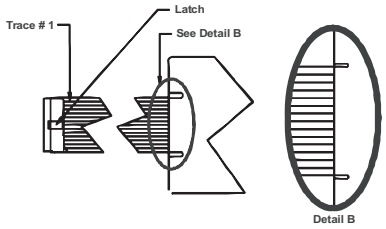
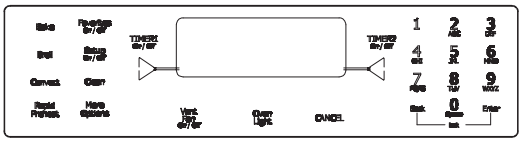
		2	2 & 8	Continuity
		3	2 & 9	Continuity
		4	2 & 10	Continuity
		5	2 & 11	Continuity
		6	2 & 12	Continuity
		7	3 & 6	Continuity
		8	3 & 7	Continuity
		9	3 & 8	Continuity
		0	2 & 6	Continuity
		Cancel	4 & 9	Continuity
		Bake	4 & 10	Continuity
		Broil	4 & 11	Continuity
		Convect	5 & 9	Continuity
		Clean	5 & 7	Continuity
		Favorites	4 & 12	Continuity
		Rapid Preheat	5 & 10	Continuity
		Vent Fan	5 & 11	Continuity
		More Options	5 & 8	Continuity
		Setup	5 & 6	Continuity
		ATM 1	4 & 6	Continuity
		ATM 2	4 & 7	Continuity
		Back	3 & 9	Continuity
		Enter	3 & 10	Continuity
		Timer 1	3 & 11	Continuity
		Timer 2	3 & 12	Continuity
		Oven Light	4 & 8	Continuity

Testing the User Interface

Control Component	Test Procedure	Results		
Switch membrane assembly **JES9750BA***	Closed circuitry resistance (defined as continuity): 2000 Max Ω Pins 1 & 11 are shorted together for control configuration purposes  	**Pad**	**Trace**	**Measurement**
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		2	2 & 8	Continuity
		3	2 & 9	Continuity
		4	2 & 10	Continuity
		5	2 & 11	Continuity
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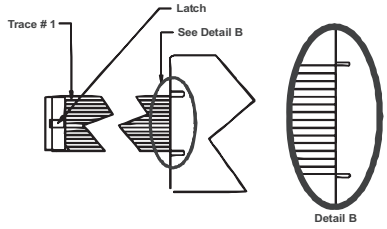
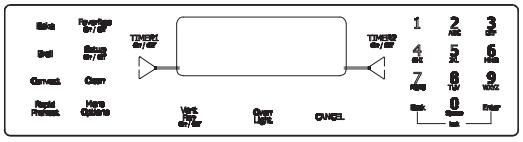
		7	3 & 6	Continuity
		8	3 & 7	Continuity
		9	3 & 8	Continuity
		0	2 & 6	Continuity
		Cancel	4 & 9	Continuity
		Bake	4 & 10	Continuity
		Broil	4 & 11	Continuity
		Clean	5 & 7	Continuity
		Favorites	4 & 12	Continuity
		Vent Fan	5 & 11	Continuity
		More Options	5 & 8	Continuity
		Setup	5 & 6	Continuity
		ATM 1	4 & 6	Continuity
		ATM 2	4 & 7	Continuity
		Back	3 & 9	Continuity
		Enter	3 & 10	Continuity
		Timer 1	3 & 11	Continuity
		Timer 2	3 & 12	Continuity
		Oven Light	4 & 8	Continuity

Switch membrane assembly **JES9860BA***	Closed circuitry resistance (defined as continuity): 2000 Max Ω Pins 1 & 10 are shorted together for control configuration purposes  	**Pad**	**Trace**	**Measurement**
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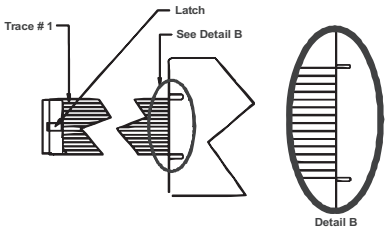
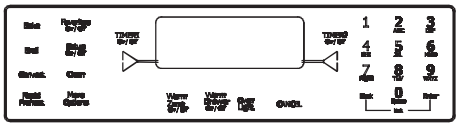
		4	2 & 10	Continuity
		5	2 & 11	Continuity
		6	2 & 12	Continuity
		7	3 & 6	Continuity
		8	3 & 7	Continuity
		9	3 & 8	Continuity
		0	2 & 6	Continuity
		Cancel	4 & 9	Continuity
		Bake	4 & 10	Continuity
		Broil	4 & 11	Continuity
		Convect	5 & 9	Continuity
		Clean	5 & 7	Continuity
		Favorites	4 & 12	Continuity
		Rapid Preheat	5 & 10	Continuity
		Vent Fan	5 & 11	Continuity
		More Options	5 & 8	Continuity
		Setup	5 & 6	Continuity
		ATM 1	4 & 6	Continuity
		ATM 2	4 & 7	Continuity
		Back	3 & 9	Continuity
		Enter	3 & 10	Continuity
		Timer 1	3 & 11	Continuity
		Timer 2	3 & 12	Continuity
		Oven Light	4 & 8	Continuity

Testing the User Interface

Control Component	Test Procedure	Results		
Switch membrane assembly **JES8850BA***	Closed circuitry resistance (defined as continuity): 2000 Max Ω Pins 1 & 9 are shorted together for control configuration purposes  	**Pad**	**Trace**	**Measurement**
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		4	2 & 10	Continuity
		5	2 & 11	Continuity
		6	2 & 12	Continuity
		7	3 & 6	Continuity
		8	3 & 7	Continuity
		9	3 & 8	Continuity
		0	2 & 6	Continuity
		Cancel	4 & 9	Continuity
		Bake	4 & 10	Continuity
		Broil	4 & 11	Continuity
		Convect	5 & 9	Continuity
		Clean	5 & 7	Continuity
		Favorites	4 & 12	Continuity
		Rapid Preheat	5 & 10	Continuity
		Warm Drawer	5 & 11	Continuity
		Warm Zone	5 & 12	Continuity
		More Options	5 & 8	Continuity
		Setup	5 & 6	Continuity
		ATM 1	4 & 6	Continuity
		ATM 2	4 & 7	Continuity
		Back	3 & 9	Continuity
		Enter	3 & 10	Continuity
		Timer 1	3 & 11	Continuity
		Timer 2	3 & 12	Continuity
		Oven Light	4 & 8	Continuity

"Quick Test" Mode for EOC III

Follow the procedure below to perform the EOC III quick test. Once the control is in the quick test mode, any relay may be activated in any sequence. The test mode will be exited after 10 minutes of inactivity (no pads pressed within 10 minutes).

1. Press the ***Setup*** pad, then press the right ***ATM*** pad.
2. Press the left ***ATM*** pad, then press and hold ***Back*** and ***Enter*** pads for 5 seconds to enter SERVICE menu options.
3. Press the right ***ATM*** pad to scroll to the TEST menu.
4. Press the left ***ATM*** pad to select TEST options.
5. Press the left ***ATM*** pad again to enter the "Quick Test " mode.
6. Press each of the following pads indicated in the table below.
7. Press ***Cancel*** or ***Setup*** pads to exit.

NOTE: Press and hold the applicable pad to activate the associated response.
Release the applicable pad to deactivate the associated response.

The control automatically enters the engineering mode so vi sual feedback of relay operations is available on the control display. Any time a load is activated, the cooling fan is activated. When the load is deactivated, the cooling fan is also deactivated.

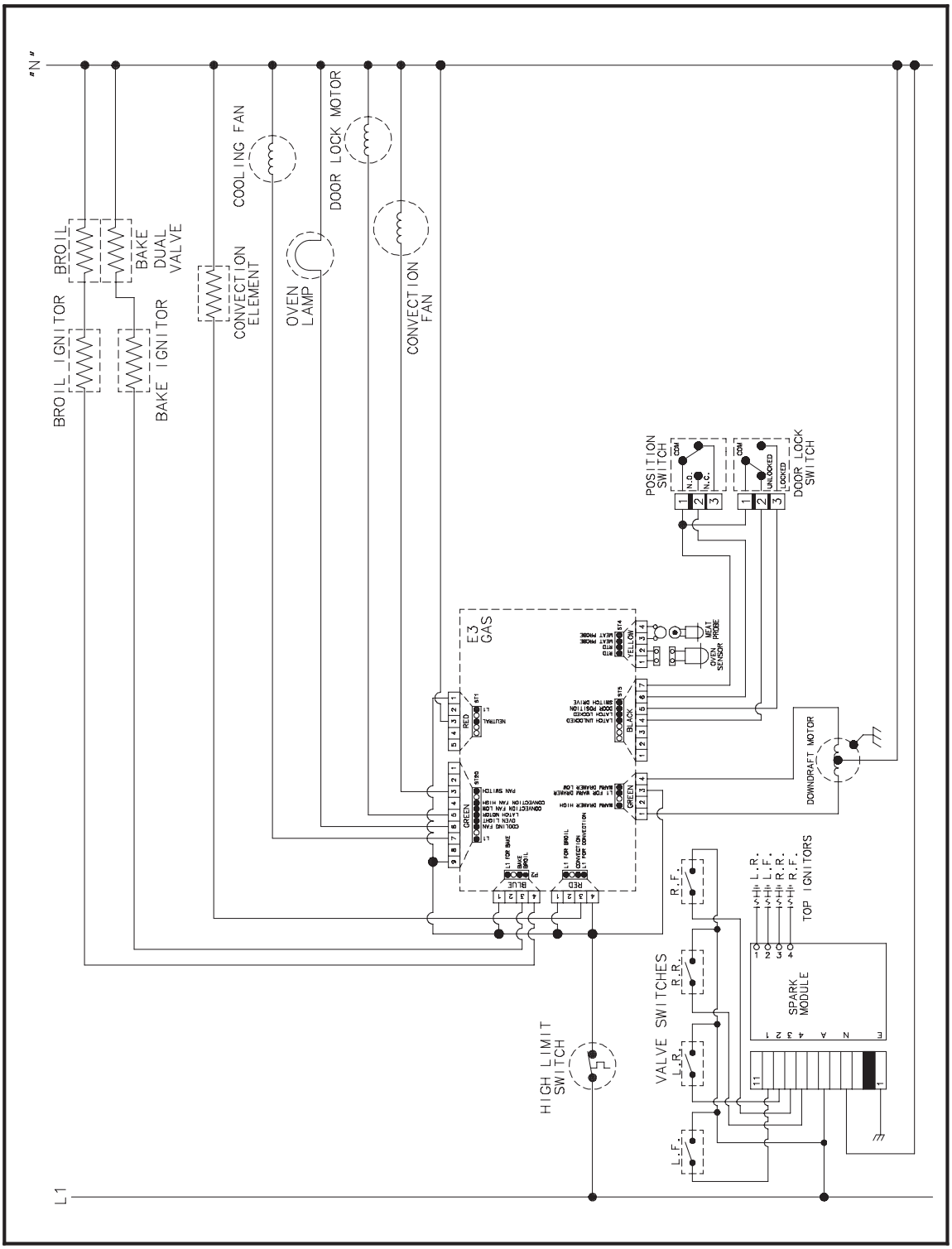
Display will indicate the following:

Pad	Response
BAKE	Bake relay activated.
BROIL	Broil relay activated.
CONVECT	Convection Bake and C ooling Fan relays activated.
OVEN LIGHT	Oven light relay activated.
RAPID PREHEAT	Convection Fan (HIGH/LOW) activated.
WARMING ZONE	Warming Zone relay activated.
VENT (DOWNDRAFT) FAN	Vent Fan relay activated.
CLEAN	Motorized Door Lock relay activated.
SETUP	1 Second Beep.
FAN	Downdraft Fan (HIGH/LOW) relay activated.
WARMING DRAWER	Warming Drawer (HIGH/LOW) relay activated.

Wiring Diagram and Schematic 16026925 16026924

⚠ WARNING

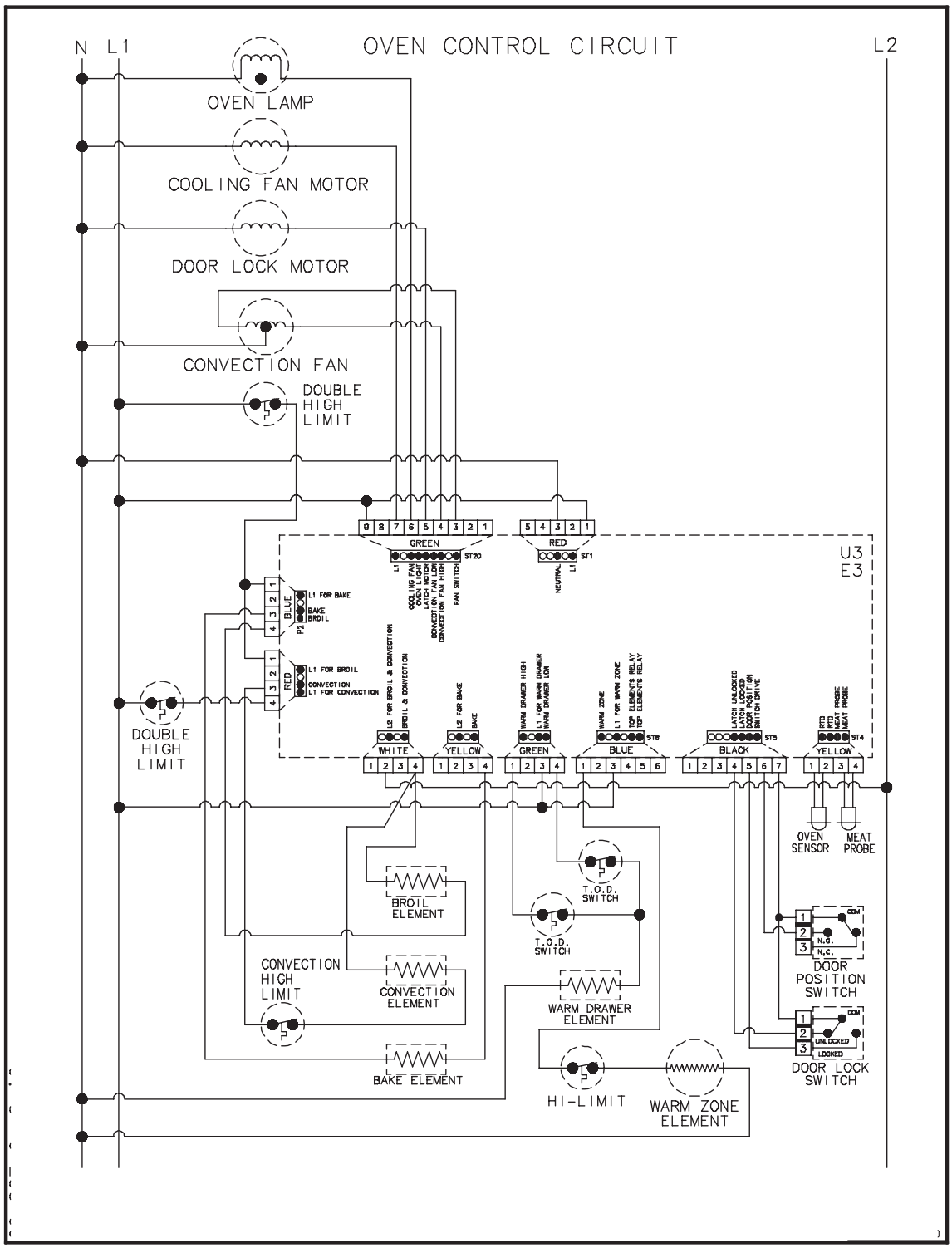
To avoid risk of electrical shock, personal injury or death; disconnect power and gas to range before servicing, unless testing requires power and/or gas.



Wiring Diagram and Schematic 16026927

WARNING

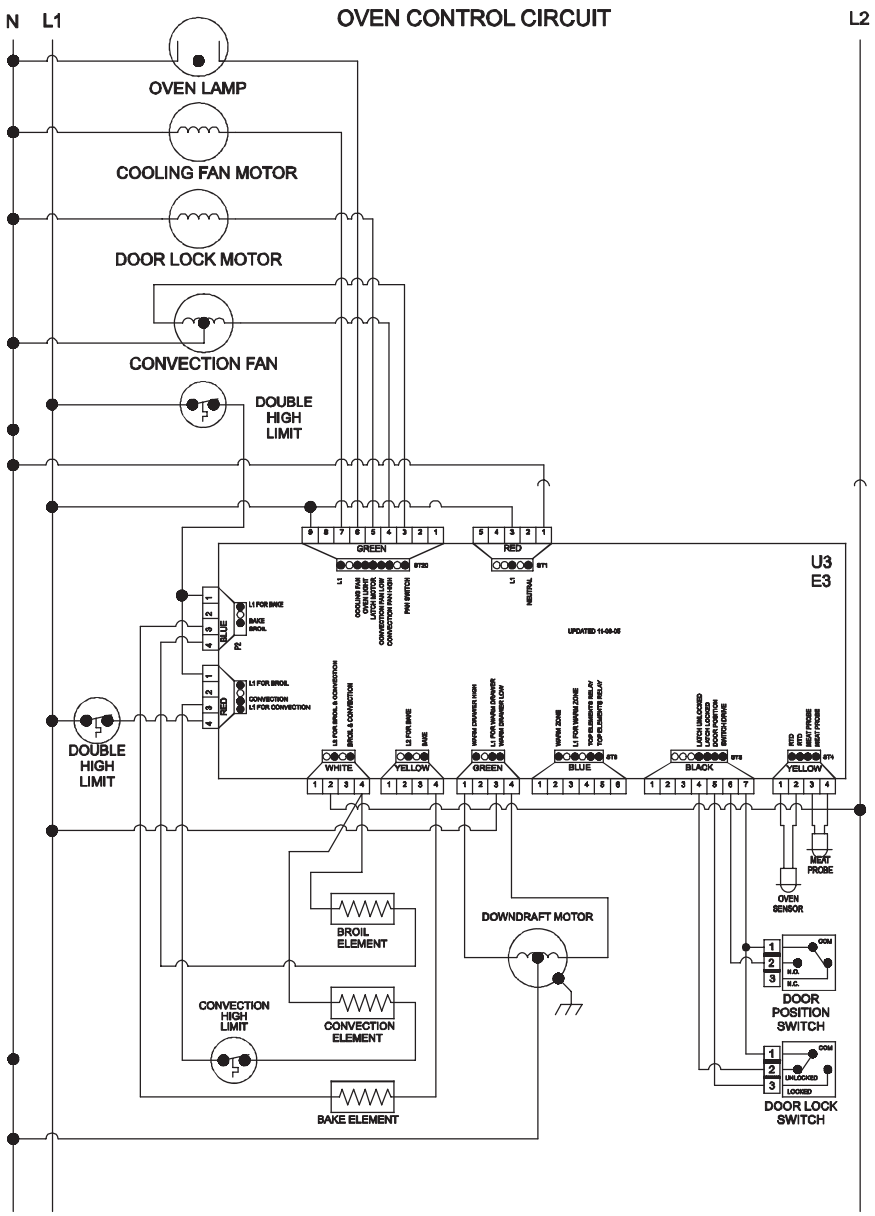
To avoid risk of electrical shock, personal injury or death; disconnect power to range before servicing, unless testing requires power.



Wiring Diagram and Schematic 16026928 16026930 16027004 16027013

⚠ WARNING

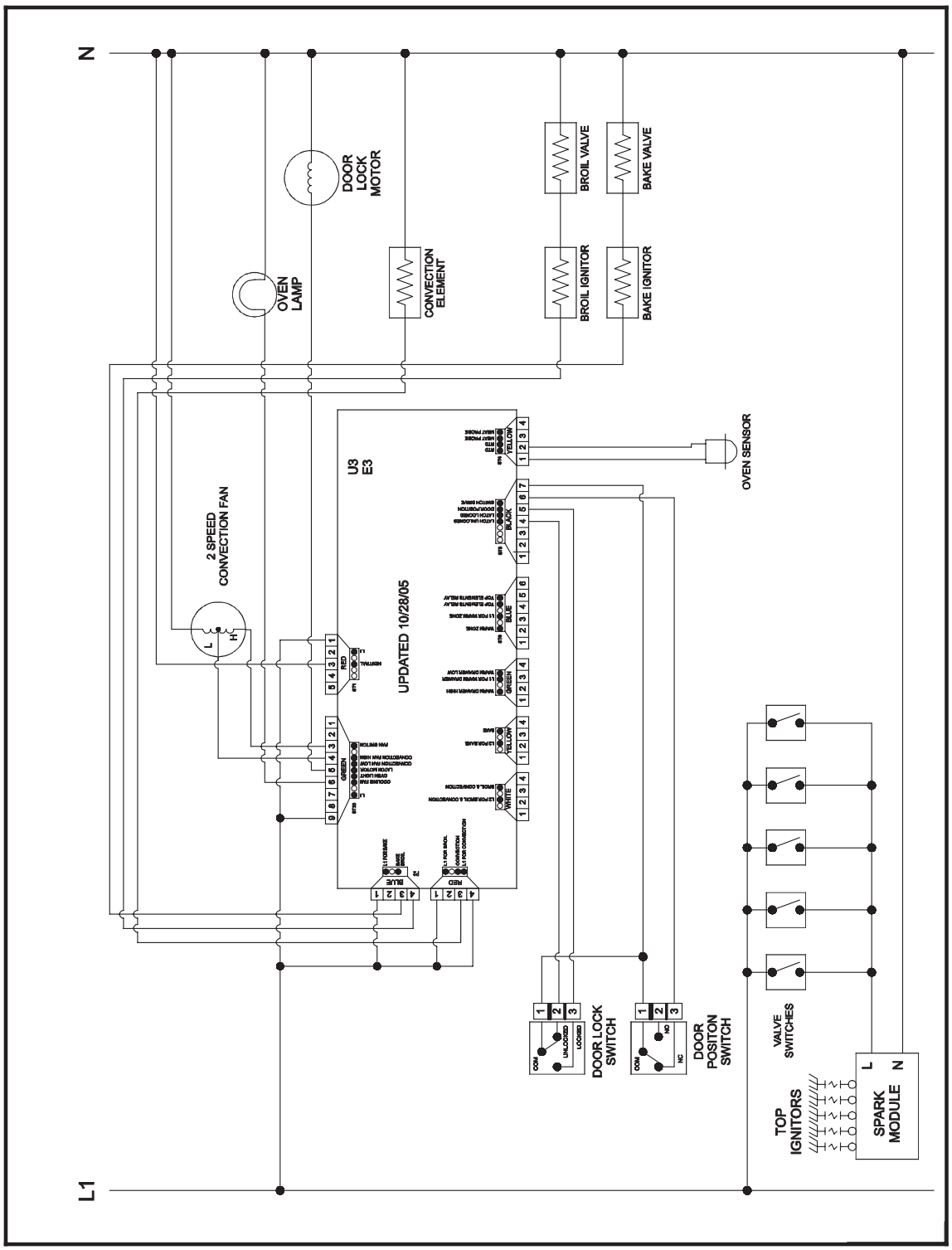
To avoid risk of electrical shock, personal injury or death; disconnect power to range before servicing, unless testing requires power.



Wiring Diagram and Schematic 16027248

WARNING

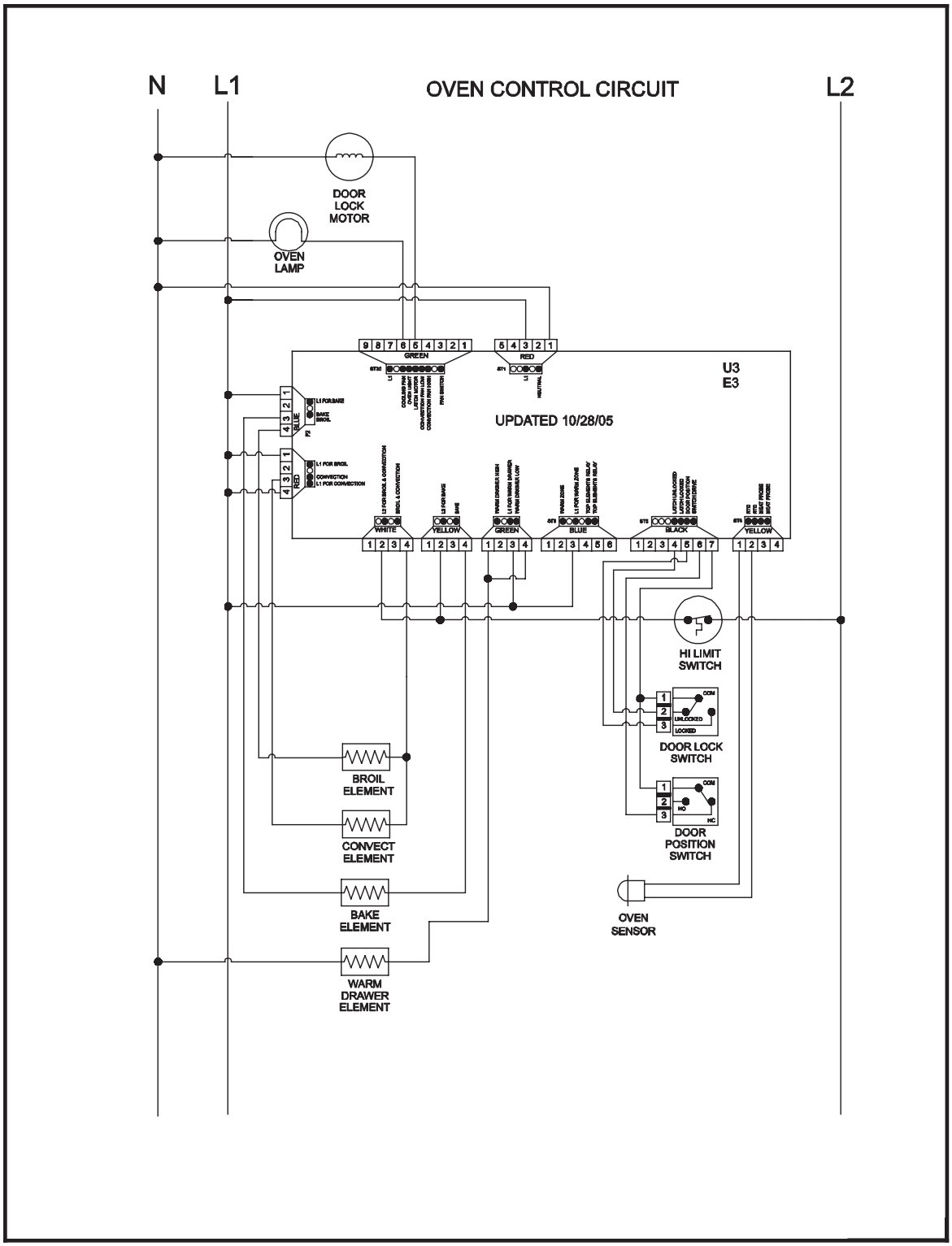
To avoid risk of electrical shock, personal injury or death; disconnect power and gas to range before servicing, unless testing requires power and/or gas.



Wiring Diagram and Schematic 16027306

⚠ WARNING

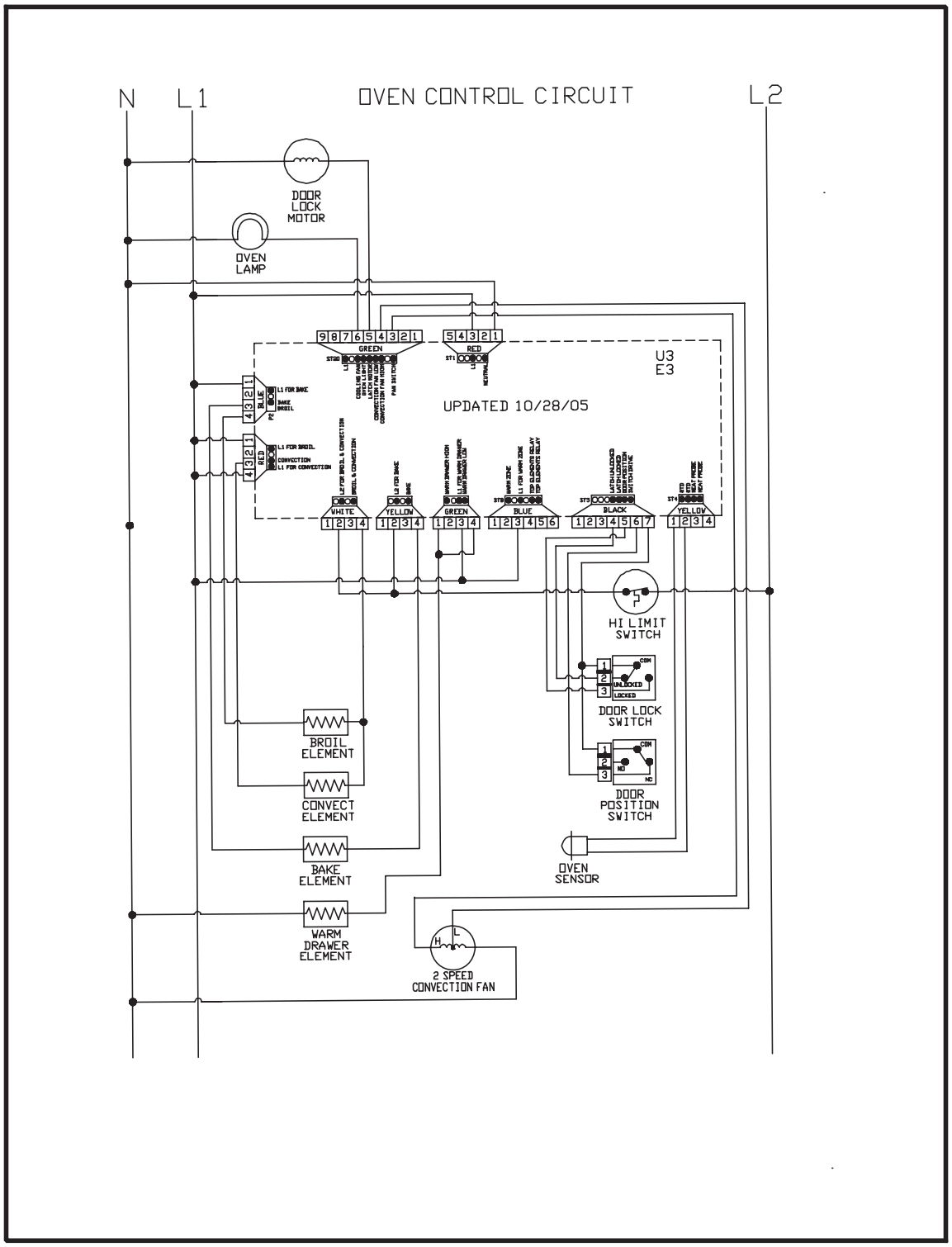
To avoid risk of electrical shock, personal injury or death; disconnect power to range before servicing, unless testing requires power.



Wiring Diagram and Schematic 16027307 16027308

⚠ WARNING

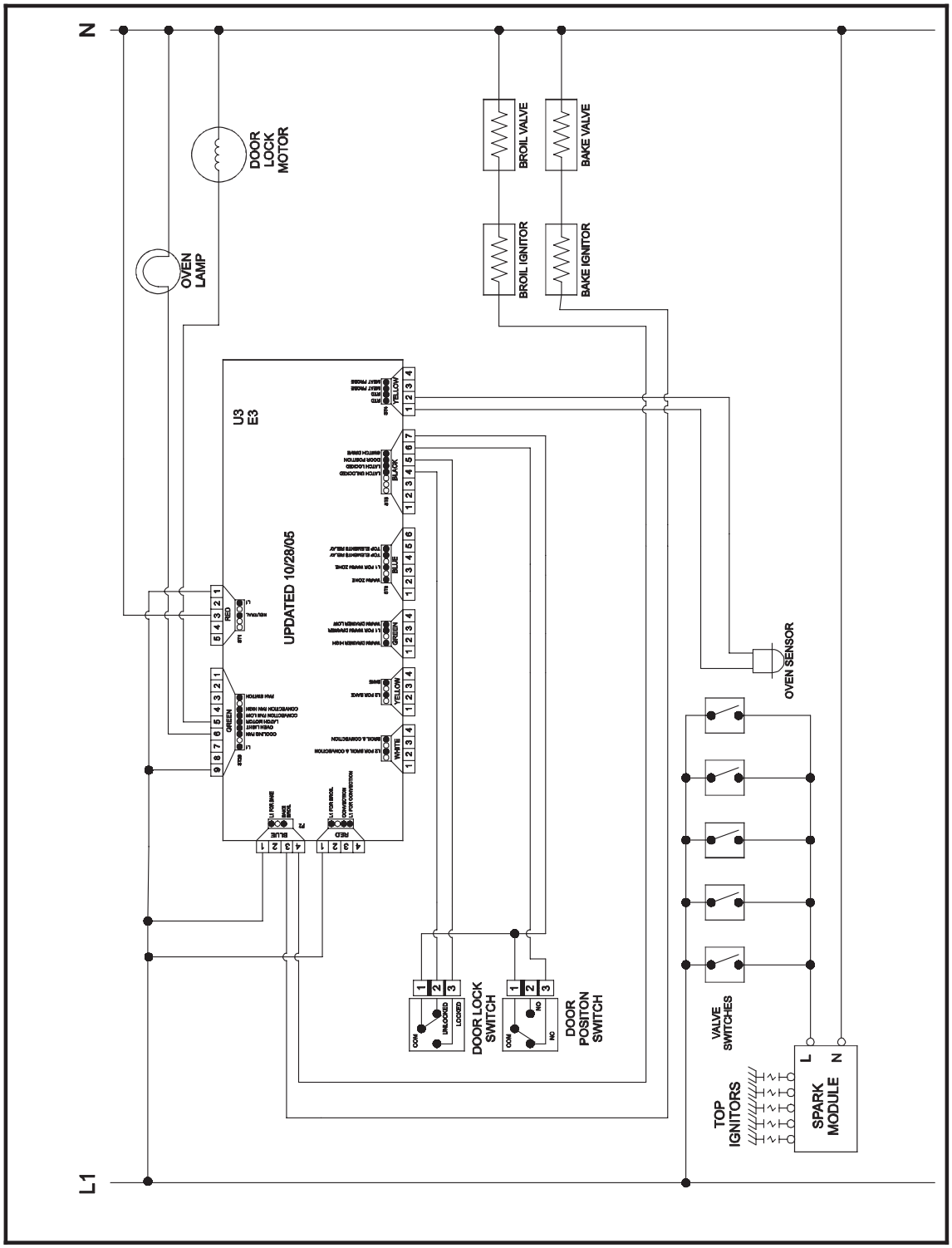
To avoid risk of electrical shock, personal injury or death; disconnect power to range before servicing, unless testing requires power.



Wiring Diagram and Schematic 16027309

⚠ WARNING

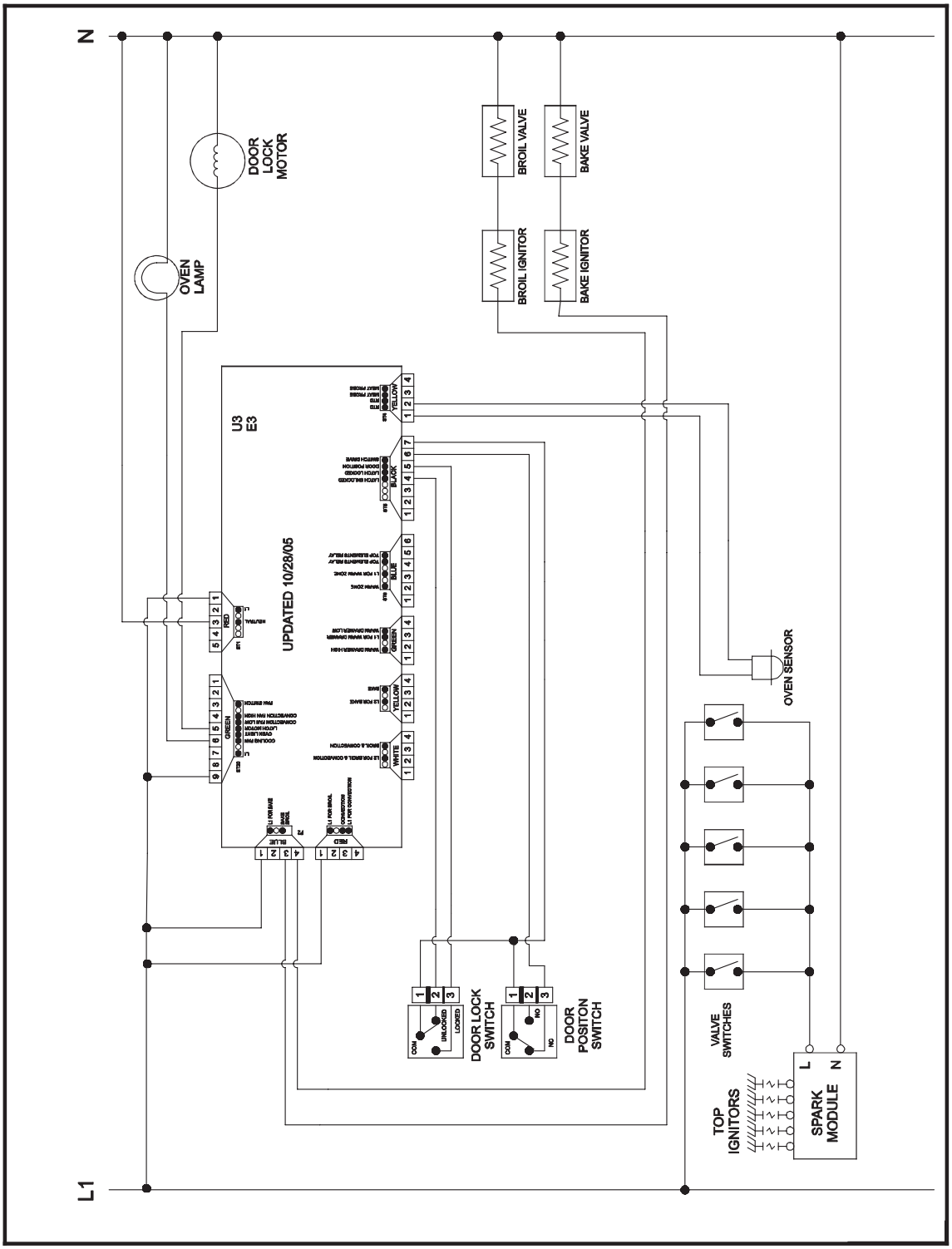
To avoid risk of electrical shock, personal injury or death; disconnect power and gas to range before servicing, unless testing requires power and/or gas.



Wiring Diagram and Schematic 16027310

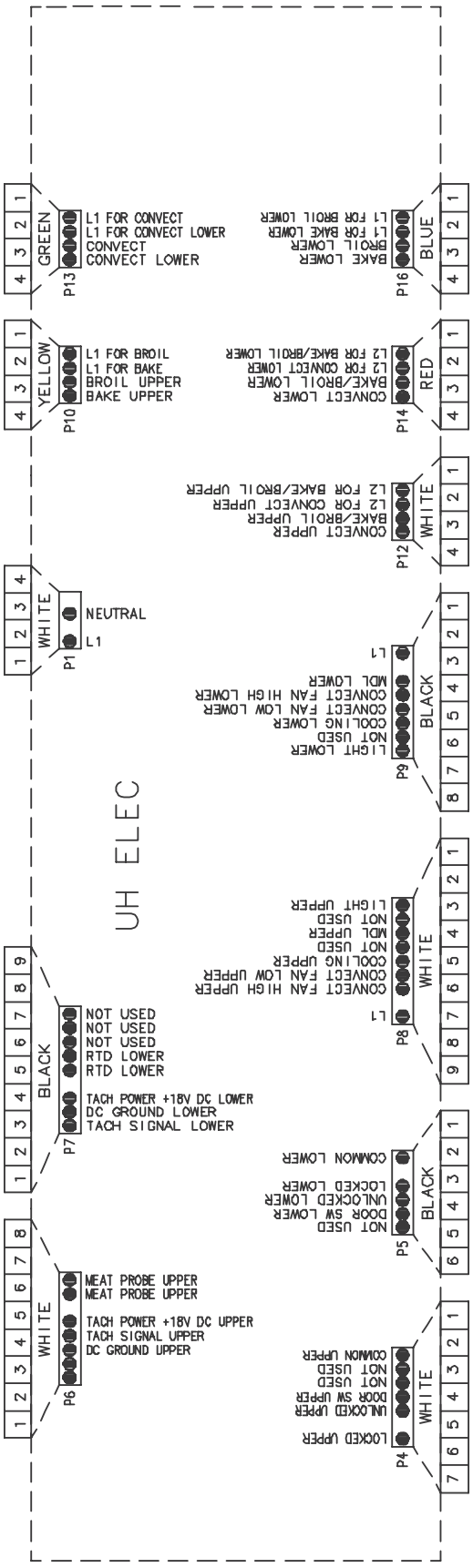
WARNING

To avoid risk of electrical shock, personal injury or death; disconnect power and gas to range before servicing, unless testing requires power and/or gas.



UH CONTROLS

Pin Out Locations



Hidden Functions

Illustration	Component	Test Procedure	Results
UH2 Controlled	Oven temperature adjustment	Press ***SETUP*** pad. Press ***DOWN ARROW*** to scroll down to ***TEMP ADJUST***. Select oven and enter desired temperature change. Press ***ENTER*** pad to accept the change. Oven can be adjusted from -35 to +35 degrees inputting 5 or 35 degrees by pressing ***+/-*** pad. To avoid over adjusting the oven, move temperature 5 degrees each time. Wait 4 seconds for the data entry timer to expire to accept the change. Temperature adjustment will be retained even through a power failure.	While increasing or decreasing oven temperature, this does not affect broiling or self-cleaning temperature. The oven offset does not need to be readjusted if there is a power failure.
UH2 Controlled	Temperature display	Press ***SETUP*** pad and use the arrow pad to scroll to the next screen. Select C/F, then select ***SET***. Press ***SETUP*** pad to exit.	This mode enables the user to indicate °F or °C on the display.
UH2 Controlled	Clock Display	Press ***SETUP*** pad. Press ***CLOCK*** pad. Press ***TIME*** and enter numeric from key pad. Select ***AM*** or ***PM.*** Press ***SETUP*** to end. Press ***SETUP*** pad. Press ***CLOCK*** pad. Press ***DAY*** pad. Press back forward to select day of week. Press ***SETUP*** to end. Press ***SETUP*** pad. Press ***CLOCK*** pad. Scroll down to ***12/24 HR.*** Scroll down to ***12/24 HR*** format. Select ***SET*** to activate. Press ***SETUP*** pad to exit. Press ***DOWN ARROW*** pad to scroll to ***CLOCK.***	Set clock, day of week, or 12/24 HR clock.
UH2 Controlled	12 Hour Shutoff	Press ***SETUP*** pad. Press ***DOWN ARROW*** pad to scroll to ***12 HOUR SHUTOFF*** pad. Select ***ON*** or ***OFF***. Select ***SET*** pad to activate. Press ***SETUP*** pad to exit.	Allows the time on the clock to be toggled from 12 hour or 24 hour display.
UH2 Controlled	Demo mode	Press ***SETUP*** pad. Press ***DOWN ARROW*** pad to scroll to ***DEMO*** pad. Select ***DEMO*** to activate. Press ***SETUP*** pad to exit.	Control will automatically cancel any cooking operation and remove all relay drives 12 hours after the last pad touch.
UH2 Controlled	Energy Saver	Press ***SETUP*** pad. Press ***DOWN ARROW*** pad to scroll to ***ENERGY SAVER*** pad. Select ***ON*** or ***OFF***. Select ***SET*** pad to activate. Press ***SETUP*** pad to exit.	To save energy, the display will turn off after five minutes of no use in time of day mode only.
UH2 Controlled	208/240 V mode	Press ***SETUP*** pad. Press ***DOWN ARROW*** pad to scroll to ***208/240 V*** pad. Select ***208*** or ***240.*** Select ***SET*** pad to activate.	For improved results when using Radiant Bake only, the oven can be set from 240 V to 208 V.
UH2 Controlled	Control Lockout	Press and hold ***BACK*** and ***ENTER*** pads for 5 seconds. To reactivate the control, press and hold ***BACK*** and ***ENTER*** pads for 5 seconds.	This is a safety feature that can be used to prevent accidentally programming the oven. It disables the electronic oven control and locks the cavity door(s). Control lockout features must be reset after a power failure.

Test Mode

UH2 Controlled	Sabbath Mode	Press ***SETUP*** pad. Press ***DOWN ARROW*** pad. Press ***SABBATH*** pad to activate Sabbath mode. Select ***AUTO*** or ***MANUAL*** pad. If ***AUTO*** selected, press continue. If ***MANUAL*** selected, press ***ON*** or ***OFF.*** Select ***SET*** pad. The time of day and day of week must be set correctly for this feature to be activated.	**Auto-Sabbath mode** will display a reminder at 2:00 PM on Friday. **Manual-Sabbath mode** will be instantly programmed for 72 hours. This mode disables the normal 12 hour energy saving mode.

Test Mode

Follow procedure below to access the Test Mode.

1. Press ***SETUP*** pad.
2. Press ***DOWN ARROW*** pad three times until ***SERVICE*** is displayed.
3. Press ***SERVICE*** pad.
4. Press and hold ***BACK*** and ***ENTER*** pads for 5 seconds.
5. Press ***TEST*** pad.

NOTE: If the oven cavity temperature is greater then 400°F, the Test Mode cannot be activated or will abort the mode if activated.

NOTE: Once the Test Mode is activated and a function is selected the control will activate the relay until the pad is pressed again. Upon entering TEST Mode all relays are turned off except the DLB relays, which are turned on. All relays are turned off when the TEST Mode is exited.

Pad Pressed	**Relay or Action Activated**
Beep	1 Second Beep
Version	Version of software
Last Fault	Display last error code and oven configuration (single, double, convection, nonconvection)
DISP Test	Display segments
UBAKE	Upper Bake Element
UBROIL	Upper Broil Element
UCONV	Upper Convection Element
UCOOL	Upper Cooling Fan
UCONV-H	Upper High Speed Convection Fan
UCONV-L	Upper Low Speed Convection Fan
UMDL	Upper Motorized Door Lock
ULITE	Upper Oven Light
LBAKE	Lower Bake Element
LBROIL	Lower Broil Element
LCONV	Lower Convection Element
LCOOL	Lower Cooling Fan
LCONV-H	Lower High Speed Convection Fan
LCONV-L	Lower Low Speed Convection Fan
LMDL	Lower Motorized Door Lock
LLITE	Lower Oven Light

Wiring Diagram and Schematic 16022512

WARNING

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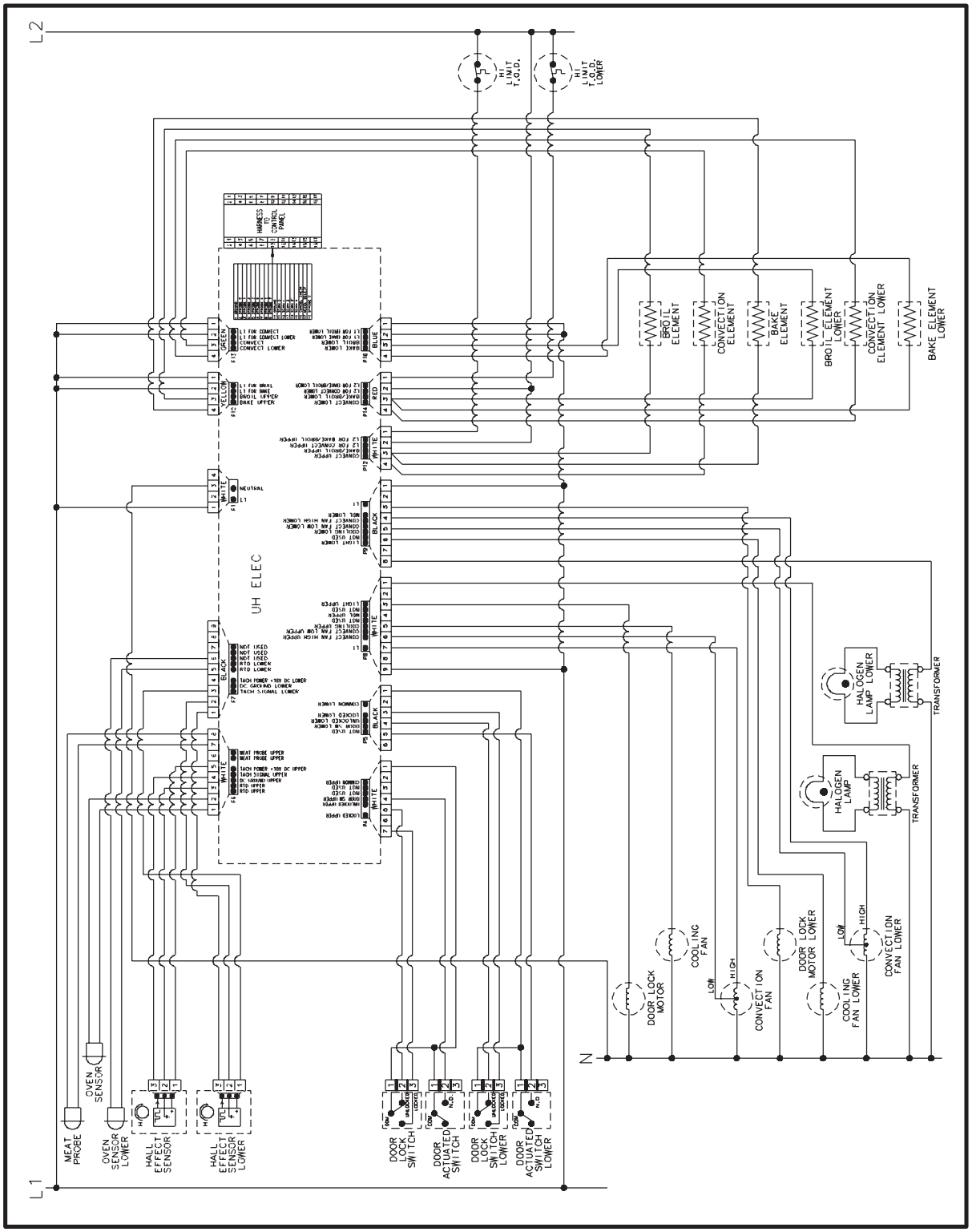
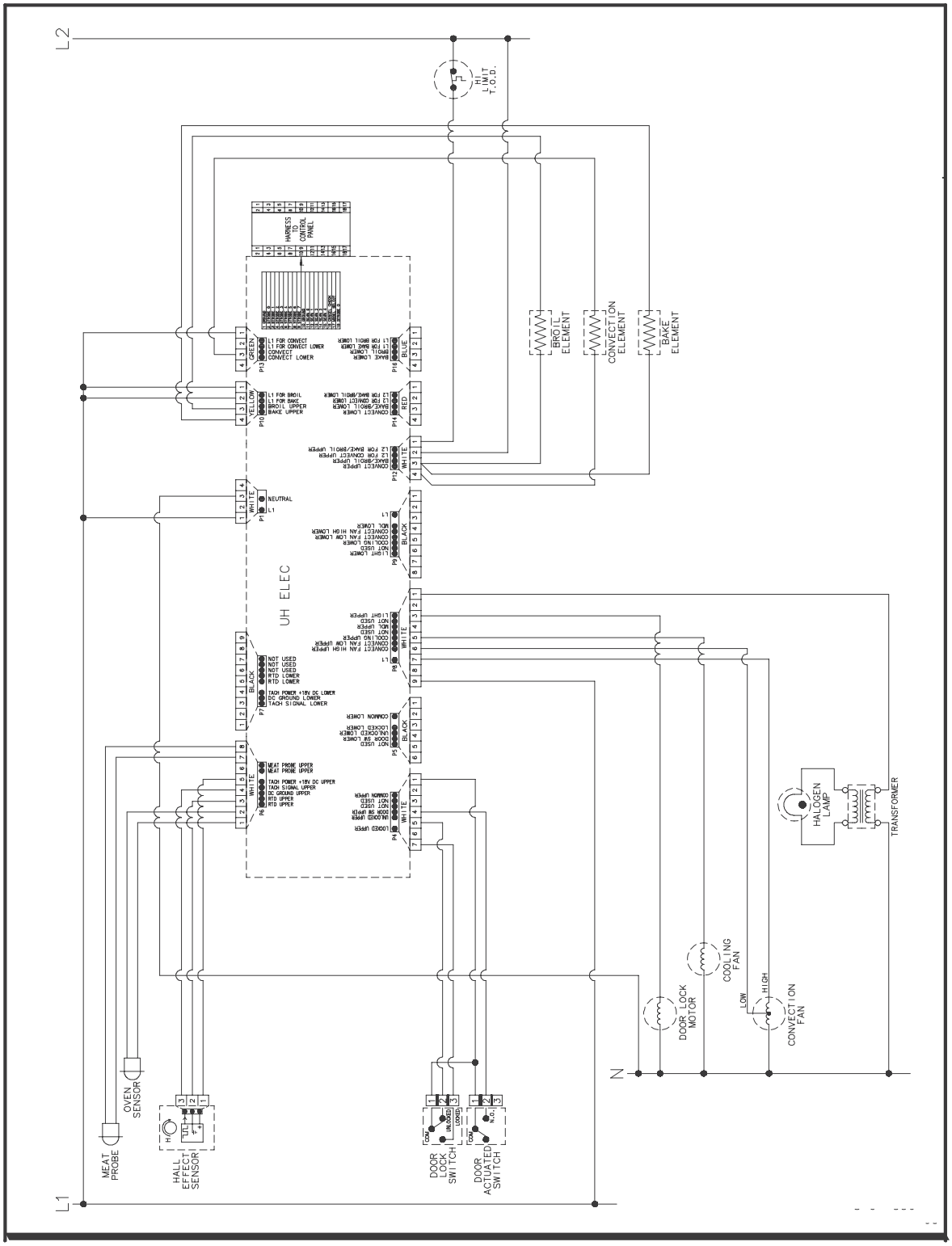


Wiring Diagram and Schematic 16026101 16022823

WARNING

To avoid risk of electrical shock, personal injury or death; disconnect power to oven before servicing, unless testing requires power.



Control Circuits

Wiring Diagram and Schematic 16025884

WARNING

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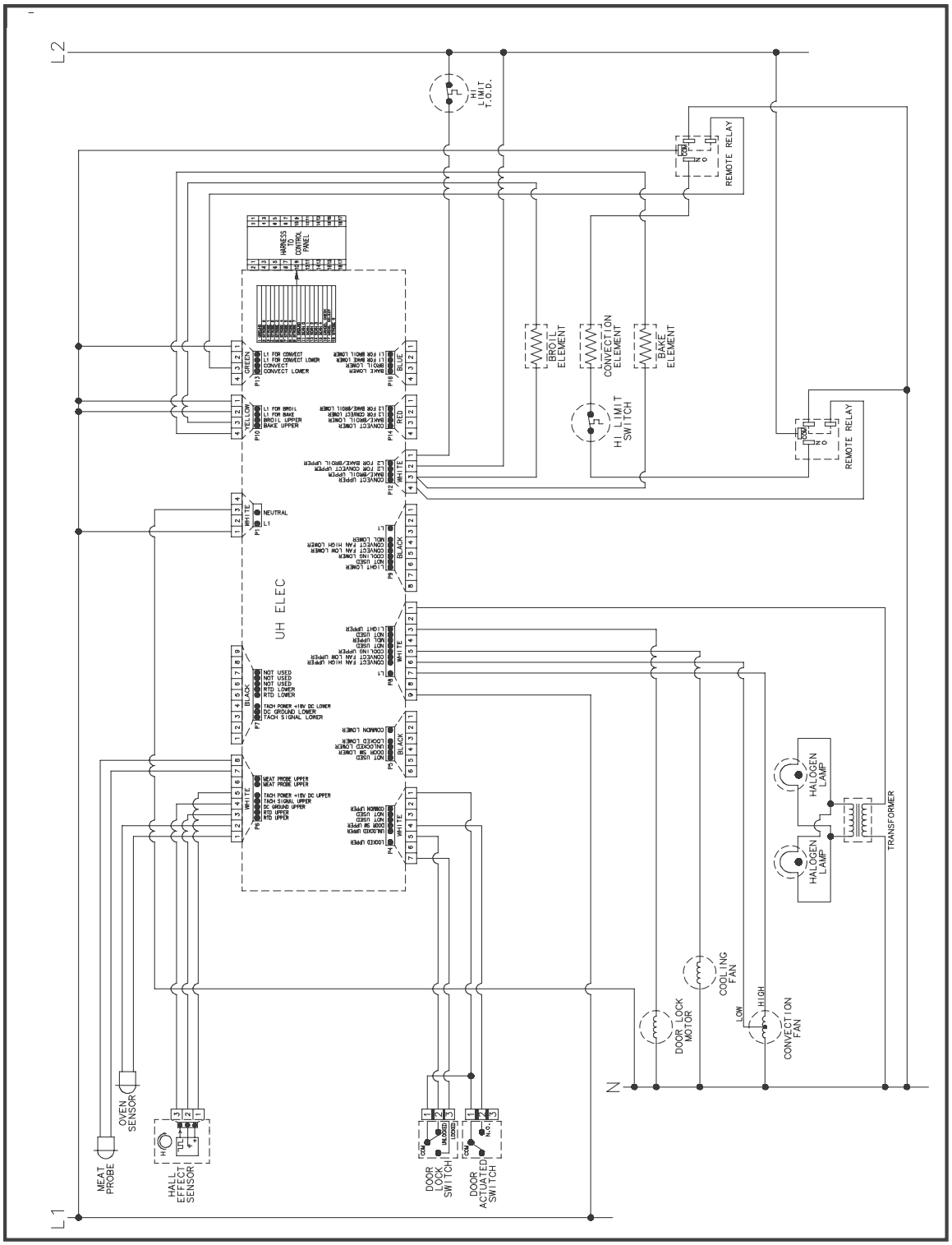

Wiring Diagram and Schematic 16025885

⚠ WARNING

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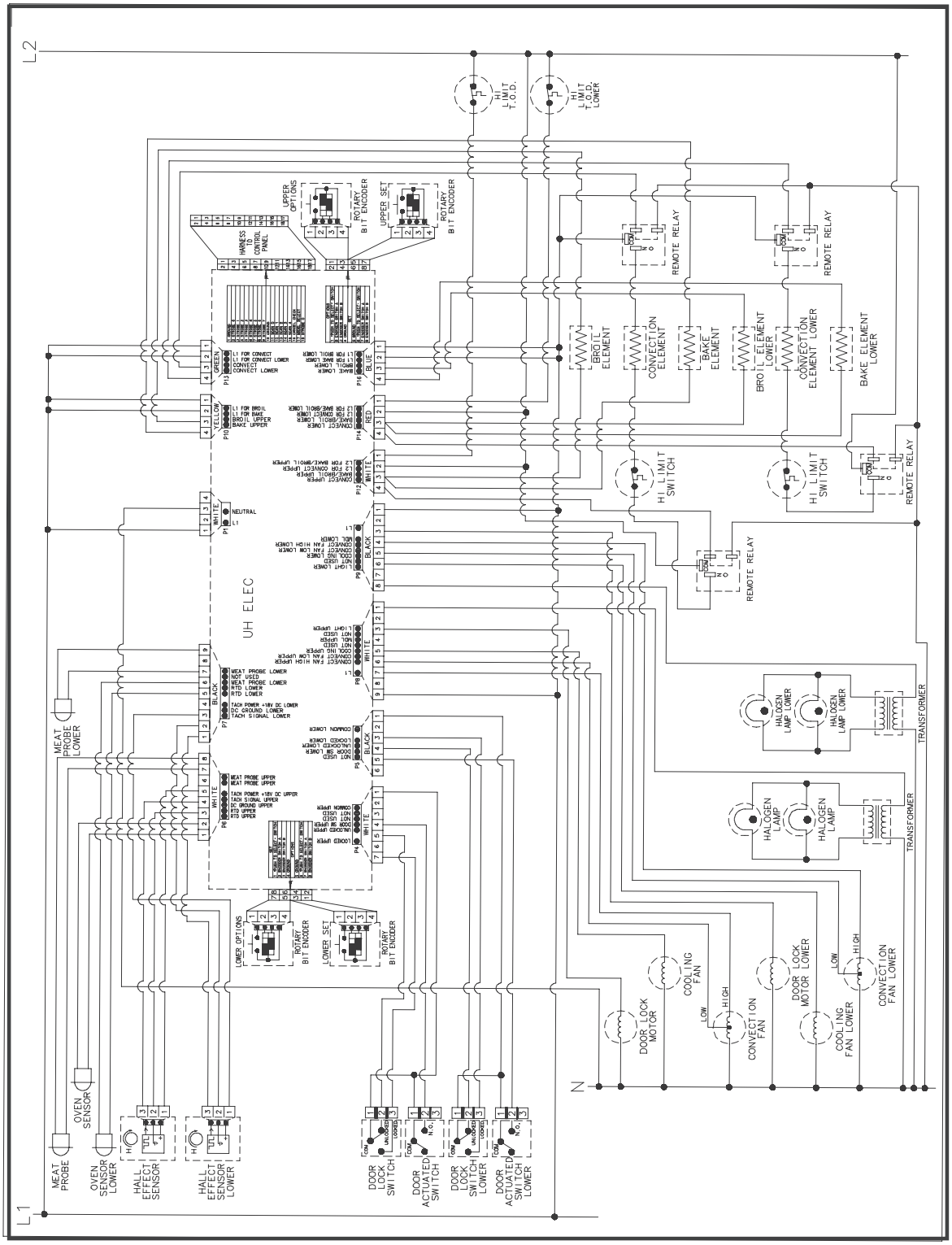
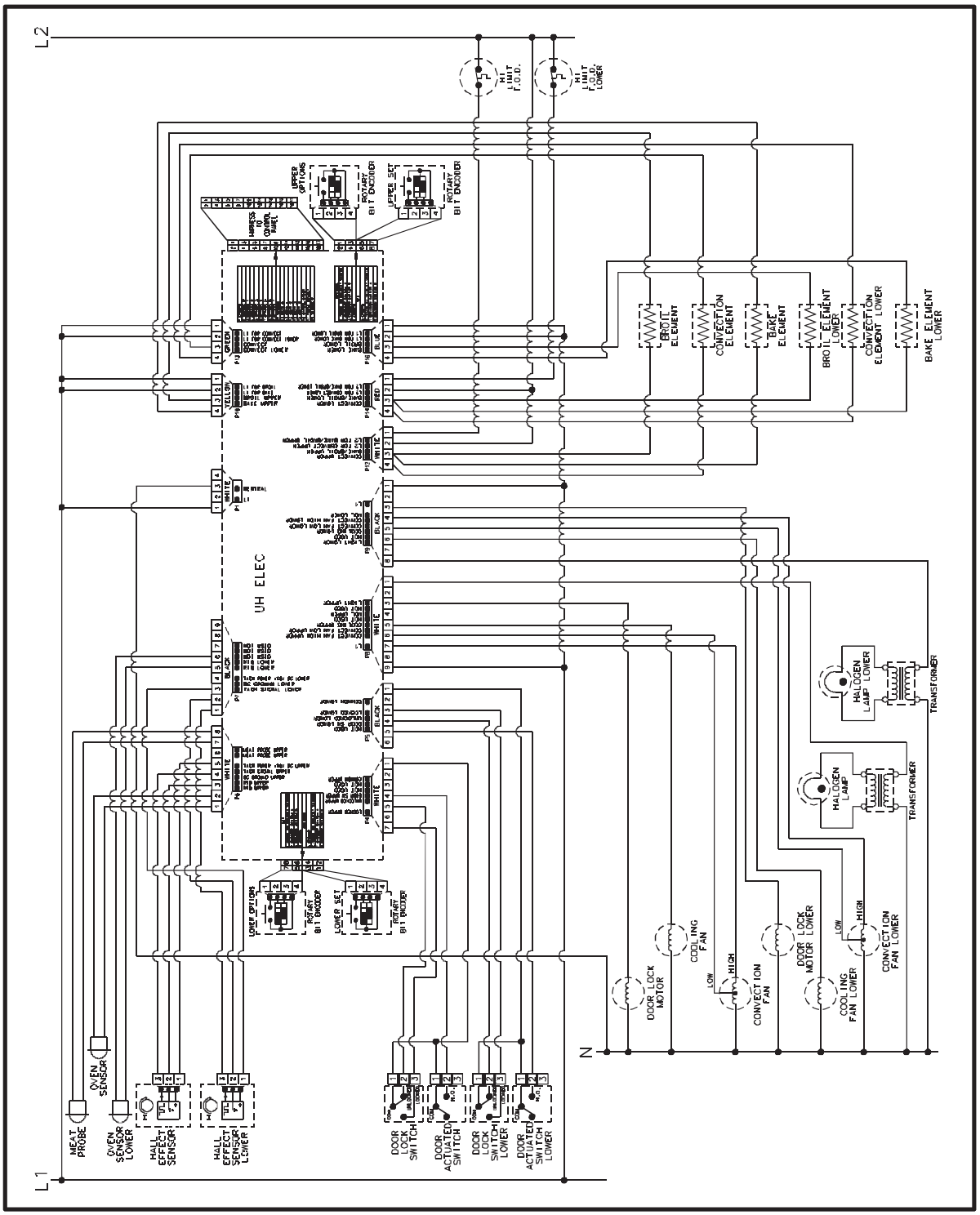


Wiring Diagram and Schematic 16026100

WARNING

To avoid risk of electrical shock, personal injury or death; disconnect power to oven before servicing, unless testing requires power.



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