Technical Information—Electric Downdraft Slide-In Range

JES9800BA* JES9900BA*

- Due to possibility of personal injury or property damage, always contact an authorized technician for servicing or repair of this unit.
- Refer to Service Manual 16026926 for detailed installation, operating, testing, troubleshooting, and disassembly instructions.

⚠ CAUTION

All safety information must be followed as provided in Service Manual 16026926.

⚠ WARNING

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

Model	JES9800BA*	JES9900BA*
Power Source @ 240 V (208 V) Kw		
Electrical rating	11.4 (8.6)	11.4 (8.6)
Frequency	60 Hz	60 Hz
Element Wattage @ 240 V (208 V)**		
Right front (dual)	N/A	3000/1600
Right front (dual)	2400/700	N/A
Right rear	1200	1200
Left front	1200	1200
Left rear (dual)	N/A	2400/1200
Left rear	2500	N/A
Elements, Oven Wattage @ 240 V (208 V)**		
Bake	2,400 (1,850)	2,400 (1,850)
Broil, 8-pass	3,600 (2,700)	3,600 (2,700)
Convection	3,500 (2,550)	3,500 (2,550)
Oven Interior Dimensions in. (cm)		
Height	17 1/4 (43.82)	17 1/4 (43.82)
Width	23 (58.4)	23 (58.4)
Depth	18 5/8 (47.3)	18 5/8 (47.3)
Product Exterior Dimensions in. (cm)		
Height Overall	36 (91.4)	36 (91.4)
Width	29 7/8 (75.9)	29 7/8 (75.9)
Depth-oven door closed, excl. handle	26 3/16 (66.5)	26 3/16 (66.5)
Depth-oven door closed, incl. handle	28 3/16 (71.6)	28 3/16 (71.6)
Features		
Dual element	Yes	Yes
Custom control	No	Yes
Downdraft fan	Yes	Yes
Dual timer controls	Yes	Yes
Child lockout	Yes	Yes
Sabbath mode	Yes	Yes
Door activated oven light	Yes	Yes
Convection	No	Yes
Electronic control	Yes	Yes
Weight lbs. (kg)		
Approximate shipping weight	192 (87)	192 (87)

****Rating of 208 VAC is approximately 80% of 240 VAC value.**

Component Testing Procedures

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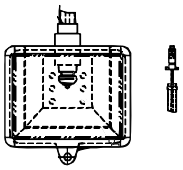
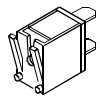
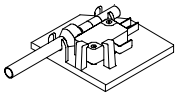
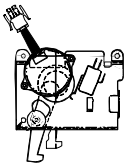
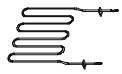
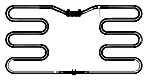
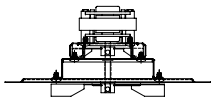
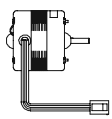
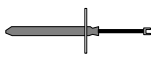
Component Testing Procedures

Illustration	Component	Test Procedure	Results
	Oven light & housing	Disconnect connector and test resistance of terminals..... Measure voltage at oven light	Verify bulb is properly inserted. Continuity with bulb inserted. 120 VAC, see wiring diagram for terminal identification. If voltage is not present at oven light, check wiring or light switches.
	Indicator lights	Measure voltage at indicator light.....	If voltage is present and light does not work, replace light. If voltage is not present at indicator light, check wiring.
	Rocker switch	Measure continuity of switch positions: Open..... Closed	 Infinite. Continuity.
	Door plunger switch	Remove switch from unit and measure the following points: Door closed ..... Door open.....	 COM-NO= Continuity (closed). COM-NO= Infinity (open).
	Autolatch assembly	Disconnect wires and test for continuity per wiring diagram ..... Refer to Parts Manual for correct autolatch switch associated with the correct manufacturing number.	See wiring diagram for schematic layout. Common is in neutral position unless locking or unlocking autolatch assembly.
	Door lock switch	Switch connection in the following positions: Door latch locked..... Door latch unlocked.....	 COM-NO= Continuity (closed). COM-NO= Infinity (open).
	Bake element	Disconnect wiring to element and measure cold resistance of terminals..... Measure voltage at bake element	Approx. 22 Ω. 240 VAC.
	Broil element	Disconnect wiring to element and measure cold resistance of terminals..... Measure voltage at broil element	Approx. 12.5 to 18 Ω. 240 VAC.
	Convection element	Disconnect wiring to element and measure cold resistance of terminals..... Measure voltage at convect element.....	Approx. 16.5 Ω. 240 VAC.
	Convection motor, 2-speed	Measure voltage ..... Check motor windings to ground.....	120 VAC. (tolerance: 105 to 135 VAC). No continuity. **RPM, Lo-speed:** Approx. 1440 to 2040. **RPM, Hi-speed:** Approx. 1860 to 2460.
	Oven limit switch	Normally closed, verify operation: **Open:** 209° to 221° F (98° to 105° C)..... **Closed:** 144° to 166° F (62° to 74° C)....	 Infinite. Continuity.
	Downdraft motor **NOTE: Downdraft fan will not engage if pan (snap) switch is not activated.**	Measure voltage ..... Check motor windings to ground.....	120 VAC. No continuity. **RPM:** 1550
	Temperature sensor	Measure resistance.....	Approx 1000 Ω at room temperature, 75° F (23.8° C).

Component Testing Procedures

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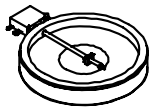
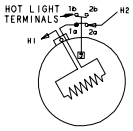
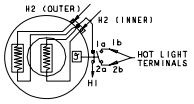
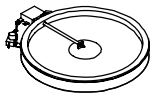
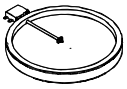
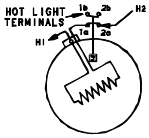
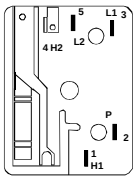
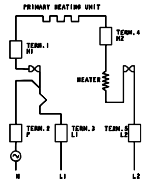
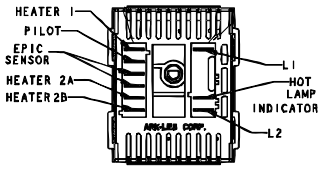
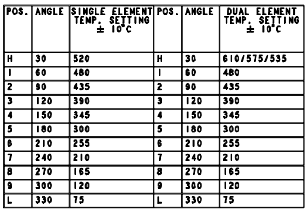
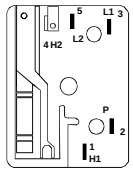
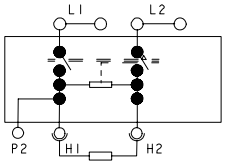
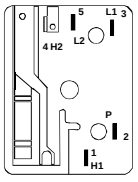
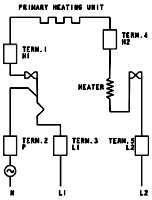
Illustration	Component	Test Procedure	Results
	Ribbon element, 1200 W 	Disconnect wiring to element and measure cold resistance of terminals. ..... Measure voltage at element.....	Approx. 44 to 49 Ω. 240 VAC.
	Ribbon element, Dual, 2400 W (1200 W inner, 1200 W outer) 	Disconnect wiring to element and measure cold resistance of terminals. ..... Measure voltage at element.....	**Inner:** Approx. 44 to 49 Ω. **Outer:** Approx. 44 to 49 Ω. 240 VAC.
(JES9900BA)* 	Ribbon element, Dual, 3000 W (1400 W inner, 1600 W outer)	Disconnect wiring to element and measure cold resistance of terminals. ..... Measure voltage at element.....	**Inner:** Approx. 38 to 42 Ω. **Outer:** Approx. 34 to 37 Ω. 240 VAC.
(JES9800BA)* 	Ribbon element, 2500 W 	Disconnect wiring to element and measure cold resistance of terminals. ..... Measure voltage at element.....	Approx. 21 to 24 Ω. 240 VAC.
(JES9900BA)* 	Infinite switch, low heat 	Remove wiring from H1 and H2. Connect volt/ohms meter to H1 and H2. Measure the following for voltages at LO, MED, HI:..... Voltage between H1 and H2	**Approximate** **Time On** / **Time Off** SIMMER 5% / 95% MED (5) 55% / 45% HI 100% / 0% 240 VAC.
(JES9900BA)* Infinite switch, custom control 		Single/dual element temp settings ..... Voltage between L1 and L2 ..... 240 VAC.	

POS.	ANGLE	SINGLE ELEMENT TEMP. SETTING ± 10°C	POS.	ANGLE	DUAL ELEMENT TEMP. SETTING ± 10°C
H	30	520	H	30	610/575/535
1	60	480	1	60	480
2	90	435	2	90	435
3	120	390	3	120	390
4	150	345	4	150	345
5	180	300	5	180	300
6	210	255	6	210	255
7	240	210	7	240	210
8	270	165	8	270	165
9	300	120	9	300	120
L	330	75	L	330	75

(JES9800BA)* 	Infinite switch 	Remove wiring from H1 and H2. Connect volt/ohms meter to H1 and H2. Measure the following for voltages at LO, MED, HI:..... Voltage between H1 and H2	**Approximate** **Time On** / **Time Off** SIMMER 5% / 95% MED (5) 35% / 65% HI 100% / 0% 240 VAC.
(JES9800BA)* 	Infinite switch 	Remove wiring from H1 and H2. Connect volt/ohms meter to H1 and H2. Measure the following for voltages at LO, MED, HI:..... Voltage between H1 and H2	**Approximate** **Time On** / **Time Off** LO 5% / 95% MED (4-5) 35% / 65% HI 100% / 0% 240 VAC. If not, replace switch.

Component Testing Procedures

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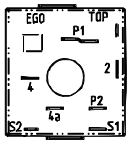
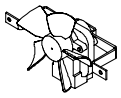
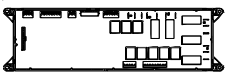
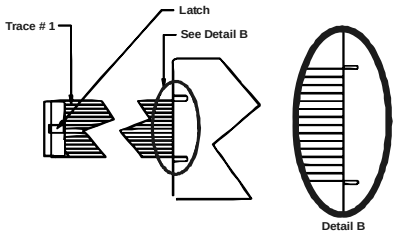
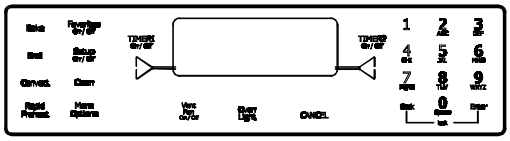
Illustration	Component	Test Procedure	Results
	Dual element infinite switch	Remove wiring from S1 and S2. Connect volt/ohms meter to S1 and S2 and measure voltages at LO, MED, HI..... Voltage between S1 and S2.....	**Approximate** **Time On** / **Time Off** SIMMER 5% / 95% MED (5) 45% / 55% HI 100% / 0% 240 VAC.
	Cooling fan motor	Measure voltage..... Check motor windings to ground.....	120 VAC. No continuity. **RPM:** Approx. 1670 to 2070.
	Electronic control	**NOTE:** To avoid equipment damage, use caution when checking electronic control circuitry voltages.	

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°)

Control Testing Procedures

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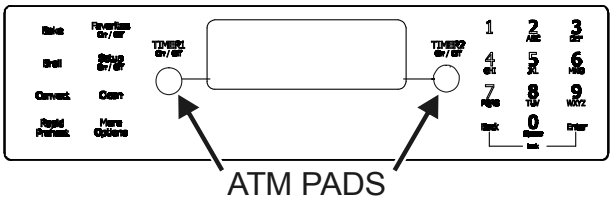
Electronic Oven Control (EOC) III Testing Procedures



ELECTRONIC OVEN CONTROL 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.
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 (Monday through Sunday) 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.

Control Testing Procedures

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Feature	Access Procedure	Modification Procedure
Sabbath Mode Bases 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, or the right ***ATM*** pad to turn off Sabbath mode. 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.
12-Hour Shutoff Disables 12-hour shutoff, 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 shutoff. Press ***Setup*** to exit.
208/240 V Setting Determines range operating voltage (208 or 240 VDC).	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 VDC, or the right ***ATM*** pad to select 240 VDC. 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 desired setting. Press ***Setup*** to exit.
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. Press ***Setup*** to exit.
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.

Control Testing Procedures

⚠ WARNING

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Feature	Access Procedure	Modification Procedure
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 locks 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.

Control Testing Procedures

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Relay Logic for EOC III

NOTE: Subsequent changes implemented after the release of this technical sheet may have altered the parameters identified in this chart.

INDEX ✕ - OFF O - ON ■ - CYCLING ◈ - ON OR OFF (DETERMINED BY USER INPUT) **COOKING MODE**	BAKE ELEMENT	BROIL ELEMENT	CONVECT ELEMENT	CONVECT FAN	WARMING DRAWER	OVEN LIGHT
IDLE	✕	✕	✕	✕	✕	◈
BAKE RAPID PREHEAT	O	✕	✕	✕	✕	◈
BAKE PREHEAT	O	✕	✕	✕	✕	◈
BAKE	■	✕	✕	✕	✕	◈
HIGH BROIL PREHEAT	✕	O	✕	✕	✕	◈
HIGH BROIL	✕	■	✕	✕	✕	◈
LOW BROIL PREHEAT	✕	O	✕	✕	✕	◈
LOW BROIL	✕	■	✕	✕	✕	◈
CLEAN PREHEAT	■	■	■	✕	✕	✕
CLEAN	■	■	■	✕	✕	✕
KEEP WARM PREHEAT	O	✕	✕	✕	✕	◈
KEEP WARM	■	✕	✕	✕	✕	◈
WARMING DRAWER HIGH	✕	✕	✕	✕	O	◈
WARMING DRAWER LOW	✕	✕	✕	✕	O	◈
CONVECT ROAST PREHEAT	✕	✕	O	✕	✕	◈
CONVECT ROAST	✕	✕	■	O*	✕	◈
CONVECT BAKE RAPID PREHEAT	✕	✕	O	✕	✕	◈
CONVECT BAKE PREHEAT	✕	✕	O	✕	✕	◈
CONVECT BAKE	✕	✕	■	✕	✕	◈
CONVECT PASTRY RAPID PREHEAT	✕	✕	O	O*	✕	◈
CONVECT PASTRY PREHEAT	✕	✕	O	O*	✕	◈
CONVECT PASTRY	✕	✕	■	O*	✕	◈
THAW-SERVE	■	■	✕	✕	✕	◈
DRYING PREHEAT	✕	✕	O	✕	✕	◈
DRYING	✕	✕	■	✕	✕	◈
RAPID PROOFING	✕	✕	O	O	✕	◈
STANDARD PROOFING	✕	✕	O	✕	✕	◈

***Convection fan stops when oven door is opened.

Control Testing Procedures

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"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 visual 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 Cooling 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.

Oven Sensor and Meat Probe Resistances

OVEN SENSOR **Sensor Type:** RTD 1000 Ω 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

Control Testing Procedures

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Description of Fault Codes for EOC III

Each fault code consists of 4 digits and is structured as follows:

1st (Leftmost) Digit: Primary Failure System	2nd Digit: Alpha-Character	3rd Digit: Secondary Failure Mechanism	4th Digit : Oven Cavity Number
1 – Local to Control System	**d** – Diagnostic Failure (measurable)		**1** – Upper (Single) Oven
3 – Sensor or Meat Probe	**c** – Control-Related Error (not measurable)		**2** – Lower Oven
4 – Input to Control System			**c** – Control System
9 – Door Lock			

If a fault is detected, then one of the following three messages will be scrolled on the display:

FAULT DETECTED PRESS ENTER TO TRY AGAIN. This message displays when a fault is detected while a cooking function is active. Clear by pressing the ***Cancel*** keypad.

FEATURE NOT AVAILABLE. This message displays when a fault is detected while entering data during initial programming and also when a locked out function is detected. Clear by pressing any key.

FAULT DETECTED DISABLE POWER TO CLEAR. This message displays when a runaway temperature condition is detected while the control is in idle mode. Press any key to clear the message, but the fault remains until the control senses a Power-On reset.

Fault Code	Description	Component to Troubleshoot/Replace
1c1c	Shorted key.	Ensure ribbon cable is securely connected, inspect ribbon cable and connector (shorts, breakage, corrosion, etc.). If OK, replace control.
1c2c	Membrane keyboard disconnected.	Ensure ribbon cable is securely connected, inspect ribbon cable and connector (shorts, breakage, corrosion, etc.). If OK, replace control.
1c4c	Board – to – Board communication failure.	Replace control.
1c6c	EEPROM hardware fault.	Replace control.
1c7c	Control not calibrated.	Replace control.
1c8c	EEPROM CRC error – User Options.	Replace control.
1c81	EEPROM CRC error – Cook Profile.	Replace control.
1d11	Unlocked runaway temperature – 600° F	Ohm sensor and harness (see "Oven Sensor" chart). If OK, change control.
1d21	Locked runaway temperature – 950° F	Ohm sensor and harness (see "Oven Sensor" chart). If OK, change control.
3d11	Temperature sensor open.	Check connections, sensor (see "Oven Sensor" chart) and harness. If OK, replace control.
3d21	Temperature sensor shorted.	Check connections, sensor (see "Oven Sensor" chart) and harness. If OK, replace control.
3d41	Meat probe shorted.	Check probe jack and harness. If OK, check meat probe (see "Meat Probe" chart).
3d51	Meat probe not calibrated.	Check probe jack and harness. If OK, check meat probe (see "Meat Probe" chart).
4d11	Door switch not closed when locked.	Check connections, switch, harness, and motor. If OK, replace control.
4d21	No cooling fan rotation.	Check cooling fan motor and harness. If OK, replace control.
4d31	Cooling fan on when de-energized.	Check cooling fan motor and harness. If OK, replace control.
4d41	Cooling fan overspeed.	Check cooling fan motor and harness. If OK, replace control.
4d51	Door switch circuit fault.	Check connections, harness, and motor. If OK, replace control.
9d11	Latch will not lock.	Check wire connections. If OK, replace motorized door lock.
9d21	Latch will not unlock.	Check wire connections. If OK, replace motorized door lock.
9d31	Latch both locked and unlocked.	Check wire connections. If OK, replace motorized door lock.

Wiring Diagram and Schematic

⚠ WARNING

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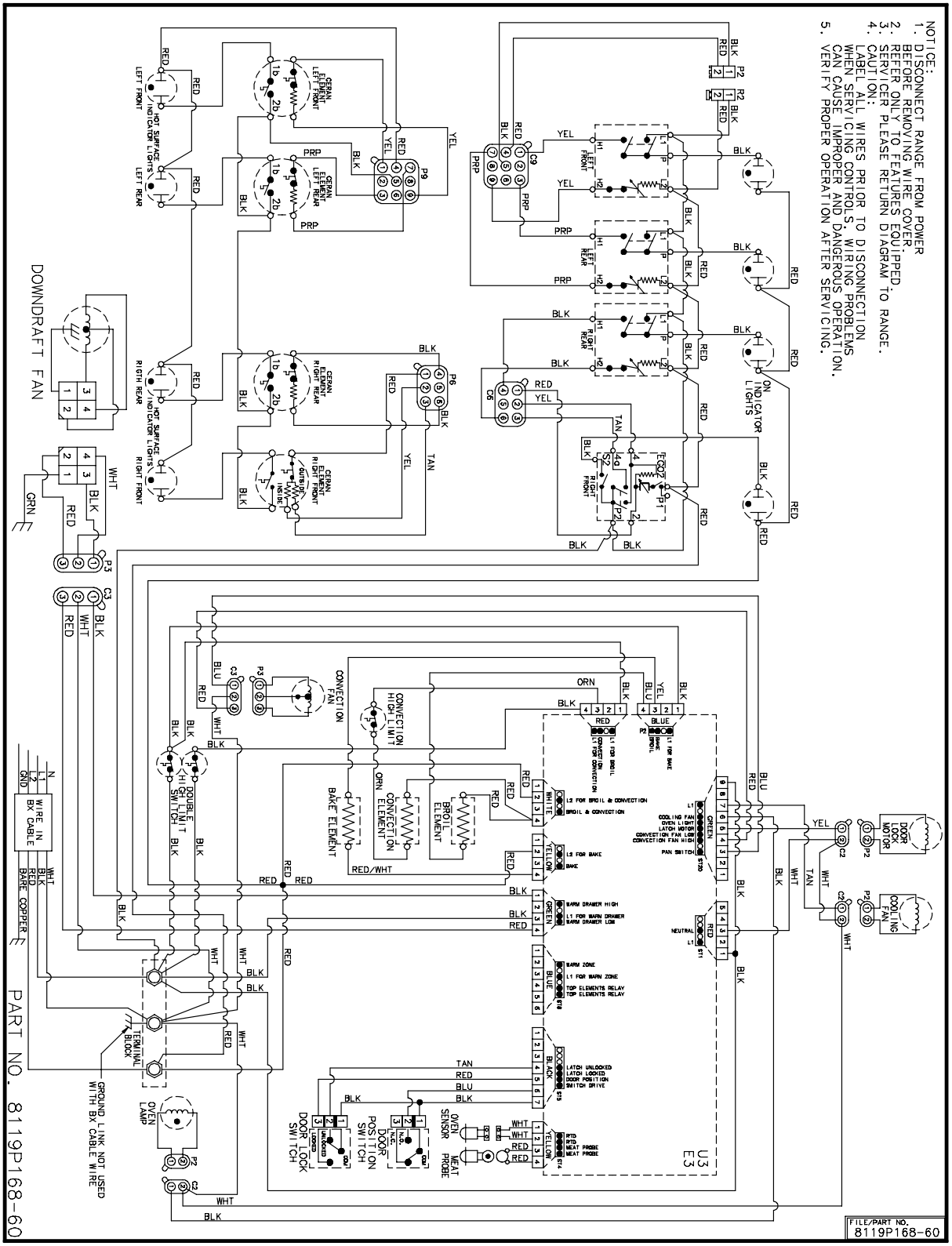

JES9800BA* Wiring Diagram

Wiring Diagram and Schematic

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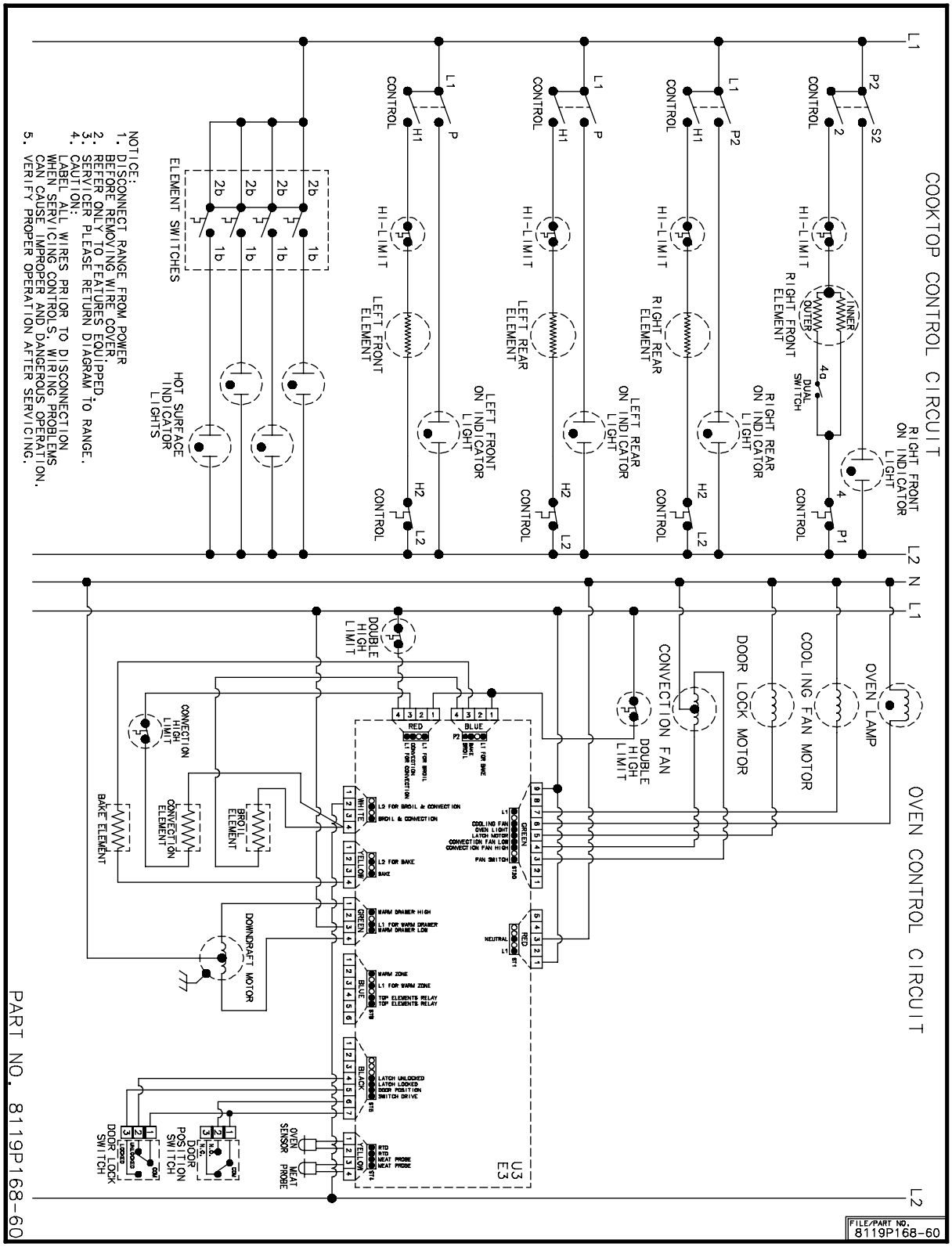

JES9800BA * Control Circuits

Wiring Diagram and Schematic

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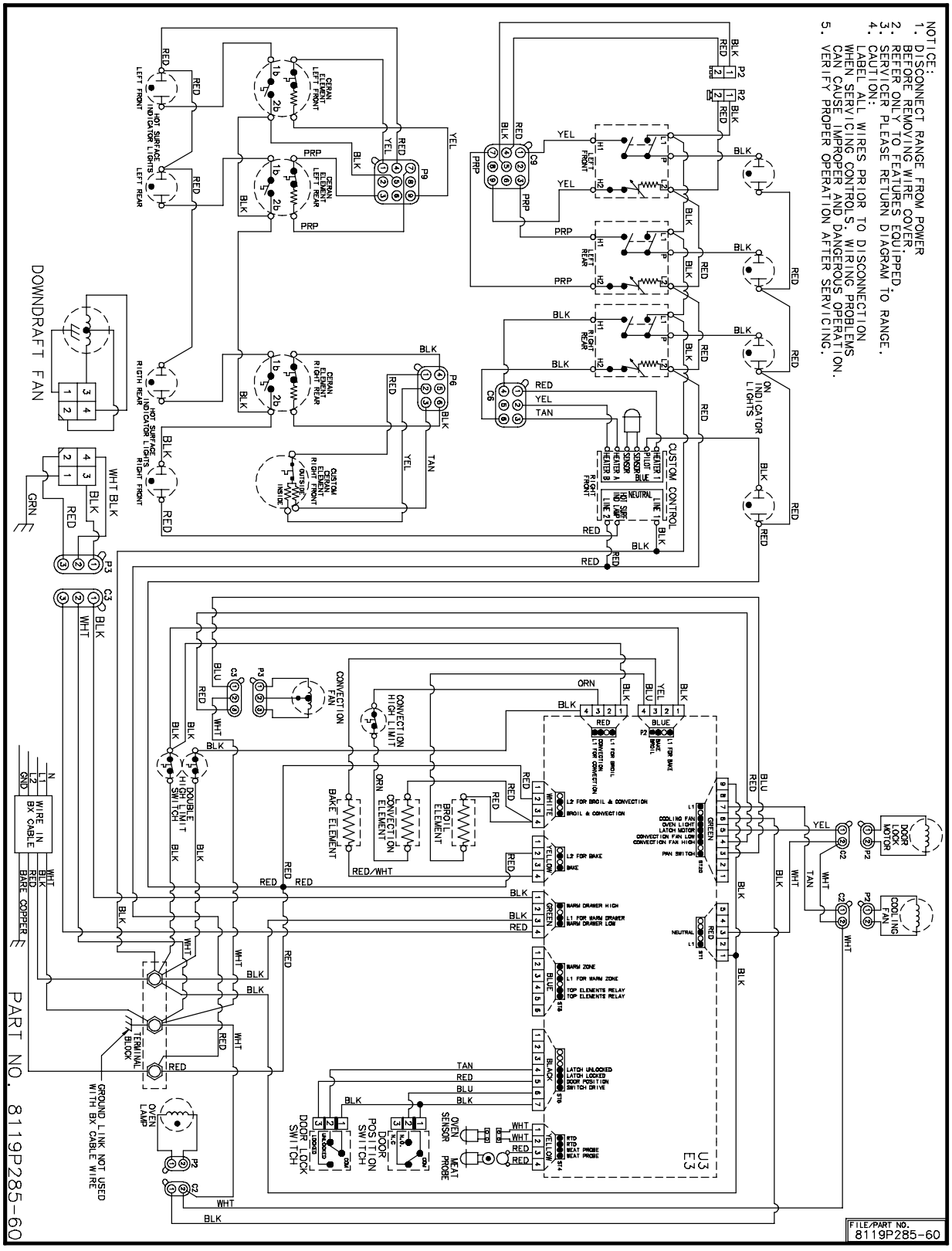

JES9900BA* Wiring Diagram

Wiring Diagram and Schematic

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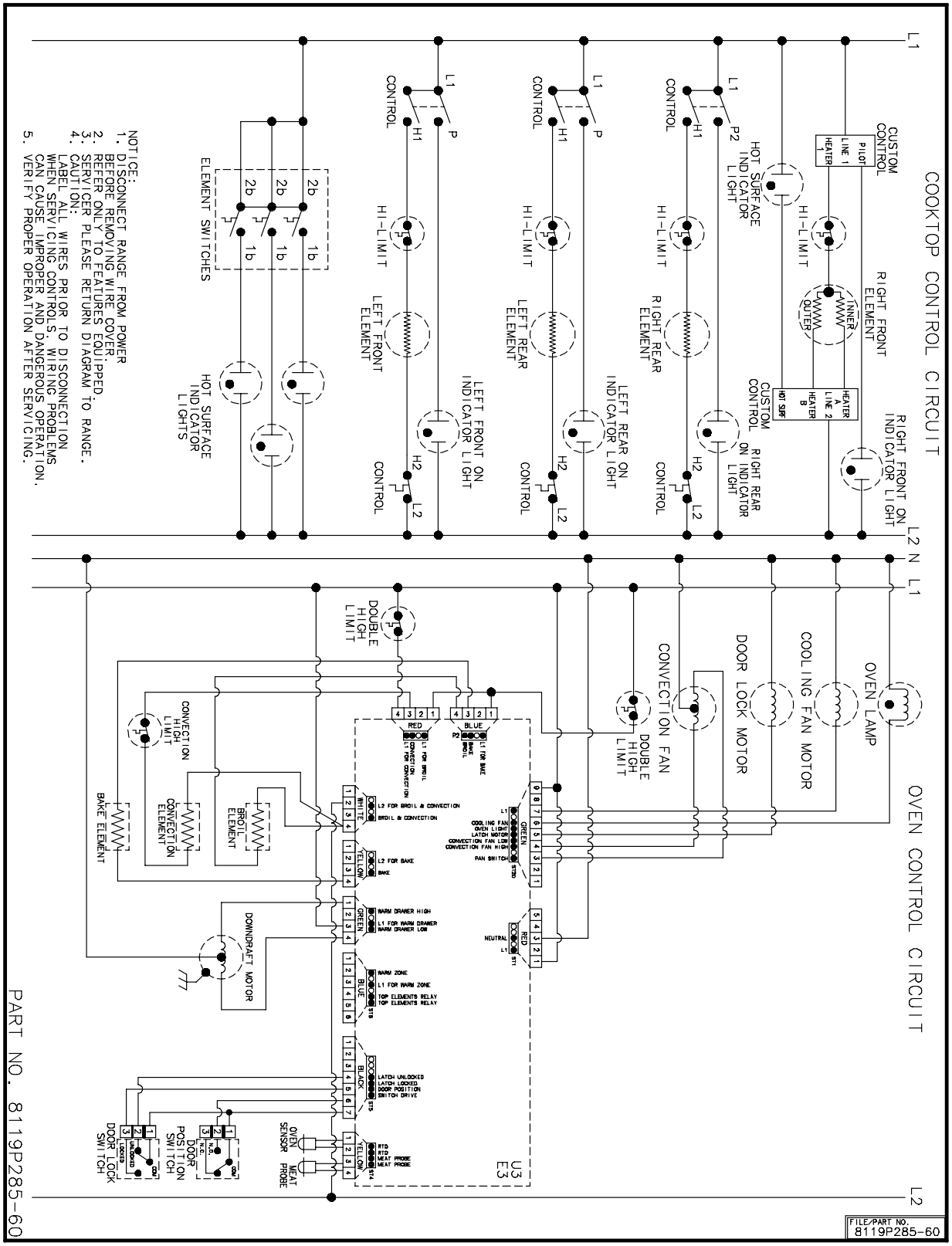

JES9900BA* Control Circuits