Technical Information—Electric Cooktop

JEC9530AD* JEC9536AD*

- 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 16022159 for detailed installation, operating, testing, troubleshooting, and disassembly instructions.

⚠ CAUTION

All safety information must be followed as provided in Service Manual 16022159.

⚠ WARNING

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

Model	JEC9530AD*	JEC9536AD*
Power Source @ 120/240/208 V		
Electrical rating	7.5 kW/5.7 kW	8.8 kW/6.7 kW
Amperage	31/27 Amp max.	37/32 Amp max.
Frequency	60 Hz	60 Hz
Element Wattage @ 240/208 V		
6-inch ribbon radiant	1,200	1,200
7-inch ribbon radiant	N/A	1,800
8-inch ribbon radiant (Series 12 and lower)	2,000	2,000
8-inch ribbon radiant (Series 13 and higher)	2,000	N/A
9/6 inch dual ribbon radiant (Series 12 and lower)	3,000/1,400	N/A
9/6 inch dual ribbon radiant (Series 13 and higher)	3,000/1,400	3,000/1,400
12/9 inch dual ribbon radiant (Series 12 and lower)	N/A	3,000/1,400
12/9 inch dual ribbon radiant (Series 13 and higher)	N/A	2,700/1,700
Warming Element 120 V	100	100
Cooktop Surface – Updraft		
Cooktop surface	Ceran/Eurokera	Ceran/Eurokera
Product Dimensions in. (cm)		
Depth	21-1/2 (54.7)	21-1/2 (54.7)
Width	29-15/16 (76.0)	35-5/16 (89.7)
Height	3-5/8 (9.2)	3-5/8 (9.2)
Product Cutout Dimensions in. (cm)		
Depth	20-3/8 (51.9)	20-3/8 (51.9)
Width	29-1/16 (74.0)	34-9/16 (87.9)
Height (minimum from top of countertop)	4-1/4 (10.8)	4-1/4 (10.8)
Weight lbs. (kg)		
Approximately shipping weight	45 (20.4)	65 (29.4)

Component Testing Procedures

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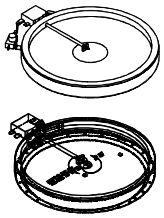
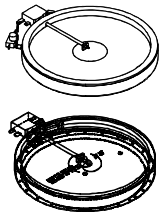
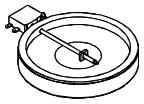
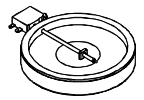
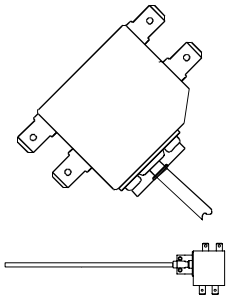
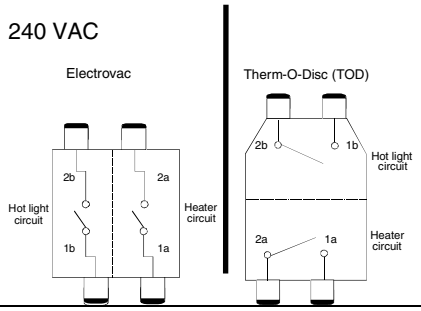
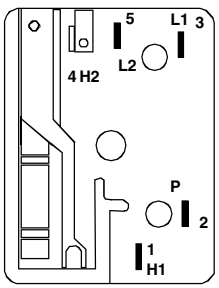
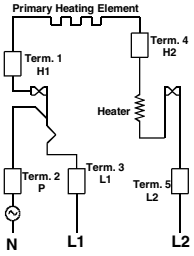
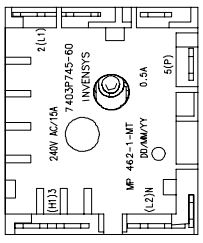
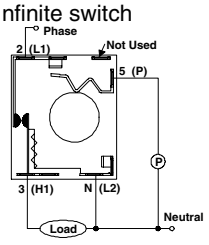
Illustration	Component	Test Procedure	Results
	**Series 12 and lower** Ribbon radiant elements 1200 W – 6" 1800 W – 7" 2000 W – 8" 3000 W – 9/6" 3000 W – 12/9"	Measure resistance of element ..... (Remove one wire lead from element.) Dual element–1400 + 1600 = 3000 W .... Dual element–1400 + 1600 = 3000 W	Continuity. If not, replace. 6" – 1200W: 44 to 49 Ω Approximately 7" – 1800W: 29 to 33 Ω Approximately 8" – 2000W: 26 to 30 Ω Approximately 3000W: 1400 W – Inner 53 to 59 Ω 1600 W – Outer 38 to 42 Ω 3000W: 1400 W – Inner 37 to 42 Ω 1600 W – Outer 33 to 37 Ω
	**Series 13 and higher** Ribbon radiant elements 1200 W – 6" 1800 W – 7" 2000 W – 8" 2700 W – 9/6" 3000 W – 12/9"	Measure resistance of element ..... (Remove one wire lead from element.) Dual element–1700 + 1000 = 2700 W .... Dual element–1400 + 1600 = 3000 W	Continuity. If not, replace. 6" – 1200W: 44 to 49 Ω Approximately 7" – 1800W: 29 to 33 Ω Approximately 8" – 2000W: 26 to 30 Ω Approximately 2700W: 1700 W – Inner 31 to 35 Ω 1000 W – Outer 53 to 59 Ω 3000W: 1400 W – Inner 37 to 42 Ω 1600 W – Outer 33 to 37 Ω
	**Series 12 and lower** Warming element 100 W	Measure resistance of element ..... (Remove one wire lead from element.)	Continuity. If not, replace. 6" – 100W: 35 to 39 Ω Approximately
	**Series 13 and higher** Warming element 100 W	Measure resistance of element ..... (Remove one wire lead from element.)	Continuity. If not, replace. 6" – 100W: 134 to 146 Ω Approximately
	Ribbon surface thermal limiter/hot light switch	Apply power to surface element and check voltage ..... 1a–2a 240 VAC 1b–2b 120 VAC Disconnect leads and measure resistance on the following: 1a–2a room temperature–continuity 1b–2b room temperature–infinite	240 VAC 
	Infinite switch 	Remove wiring from terminals H1 and H2. Connect Volt-ohms meter to H1 and H2. Measure the following for voltages at LO, MED, HI: H1 to H2.....	**Time On** **Time Off** LO 5% 95% MED (4-5) 50% 50% HI 100% 0% 240 VAC. If not, replace switch.
	Infinite switch 	Remove wiring from terminals H1 and H2. Connect Volt-ohms meter to H1 and H2. Measure the following for voltages at LO, MED, HI: H1 to H2.....	**Time On** **Time Off** LO 5% 95% MED (4-5) 50% 50% HI 100% 0% 240 VAC. If not, replace switch.

Component Testing Procedures

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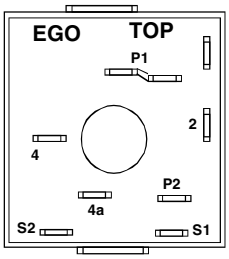
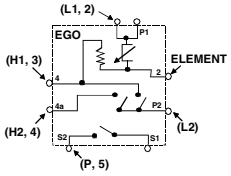
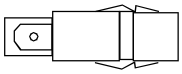
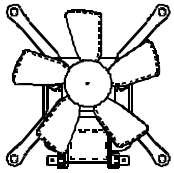
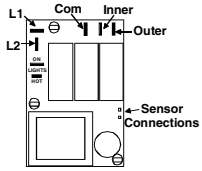
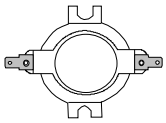
	Dual infinite switch 	Remove wiring from terminals H1 and H2. Connect Volt-ohms meter to H1 and H2. Measure the following for voltages at LO, MED, HI: H1 to H2	**Time On** / **Time Off** LO 5% / 95% MED (4-5) 50% / 50% HI 100% / 0% 240 VAC. If not, replace switch.
	Indicator light	Measure voltage at indicator light	If voltage is present and light does not work, replace light. If no voltage is present at indicator light, check wiring.
	Cooling fan	Remove wire leads from terminals and measure resistance of the motor..... Verify voltage to cooling fan terminals....	667 Ω. If 0 or infinite Ω, replace motor. 120 VAC, see Wiring Diagram/Schematic for terminal identification.
	Control surface	Measure voltage at the following terminals L1 to L2 ..... L1 to Com..... L2 to Com..... Com to Inner..... Com to Outer.....	 240 VAC 120 VAC 120 VAC 240 VAC 240 VAC
	Thermostat	 Closed ..... Open	See wiring diagram. 165° F 215° F

Wiring Diagram and Schematic

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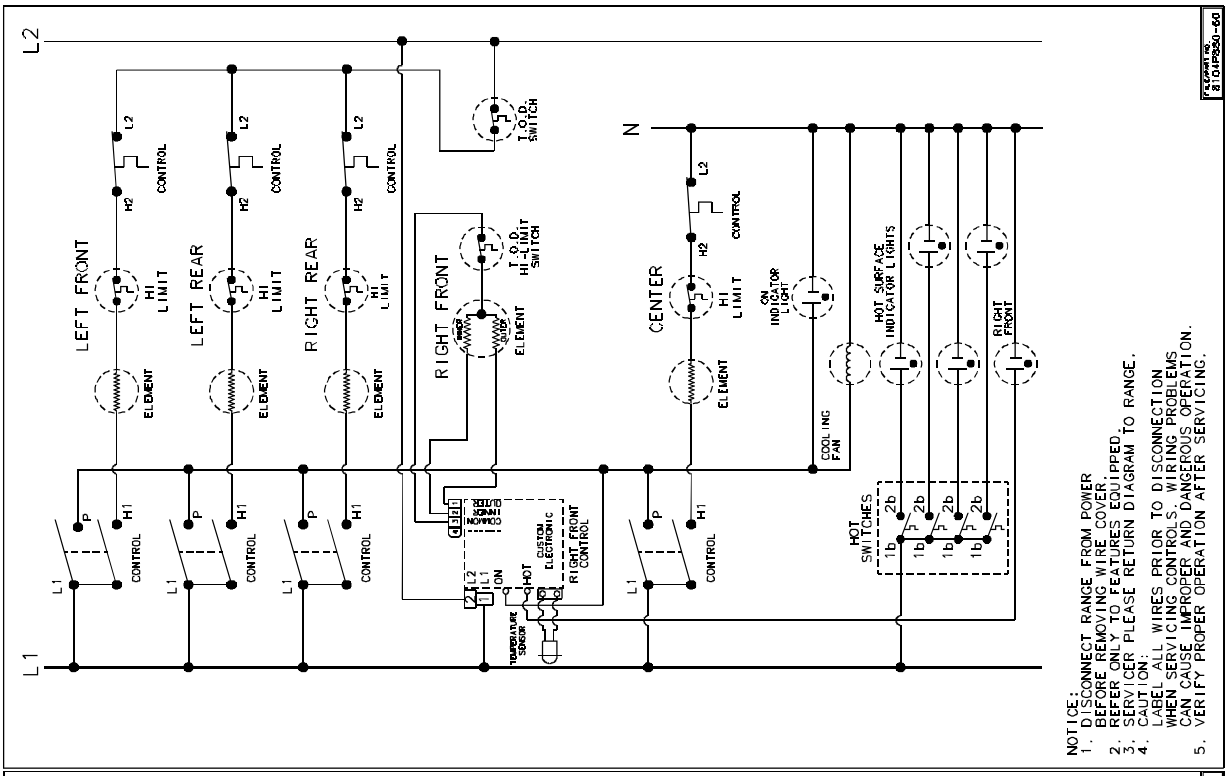

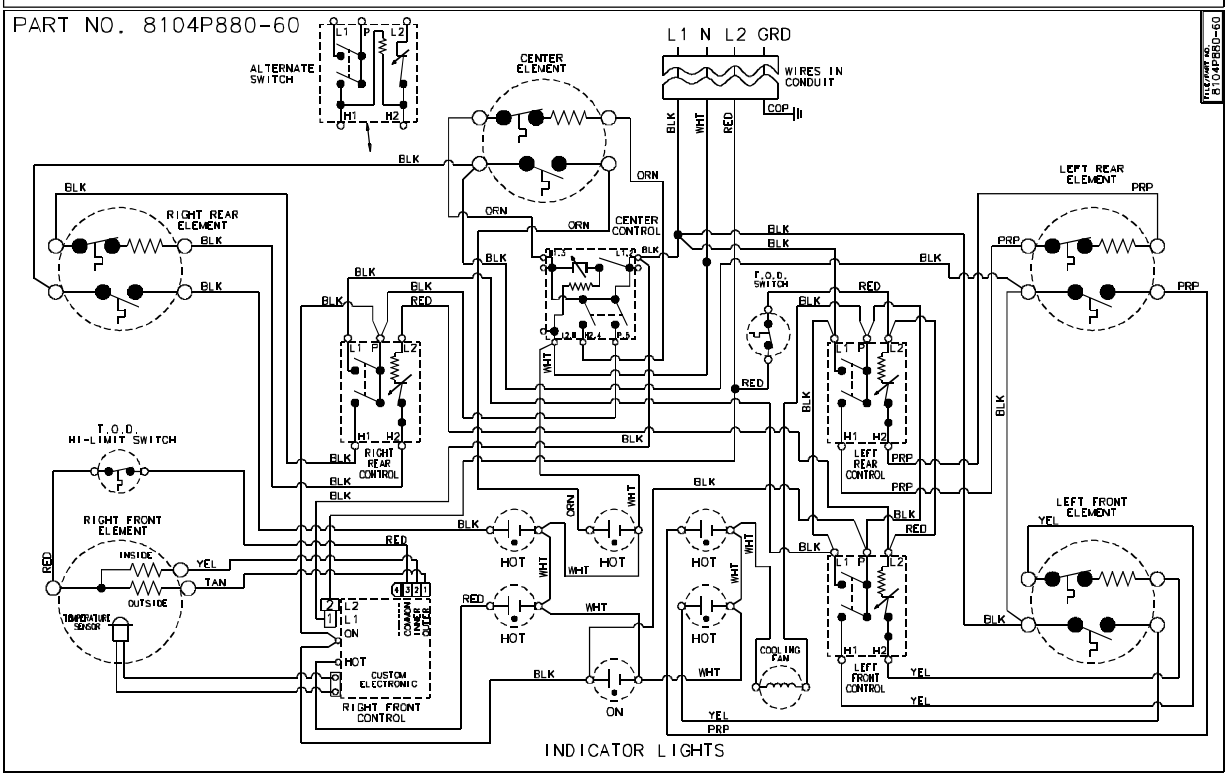

JEC9530AD* Series 12 and lower

Wiring Diagram and Schematic

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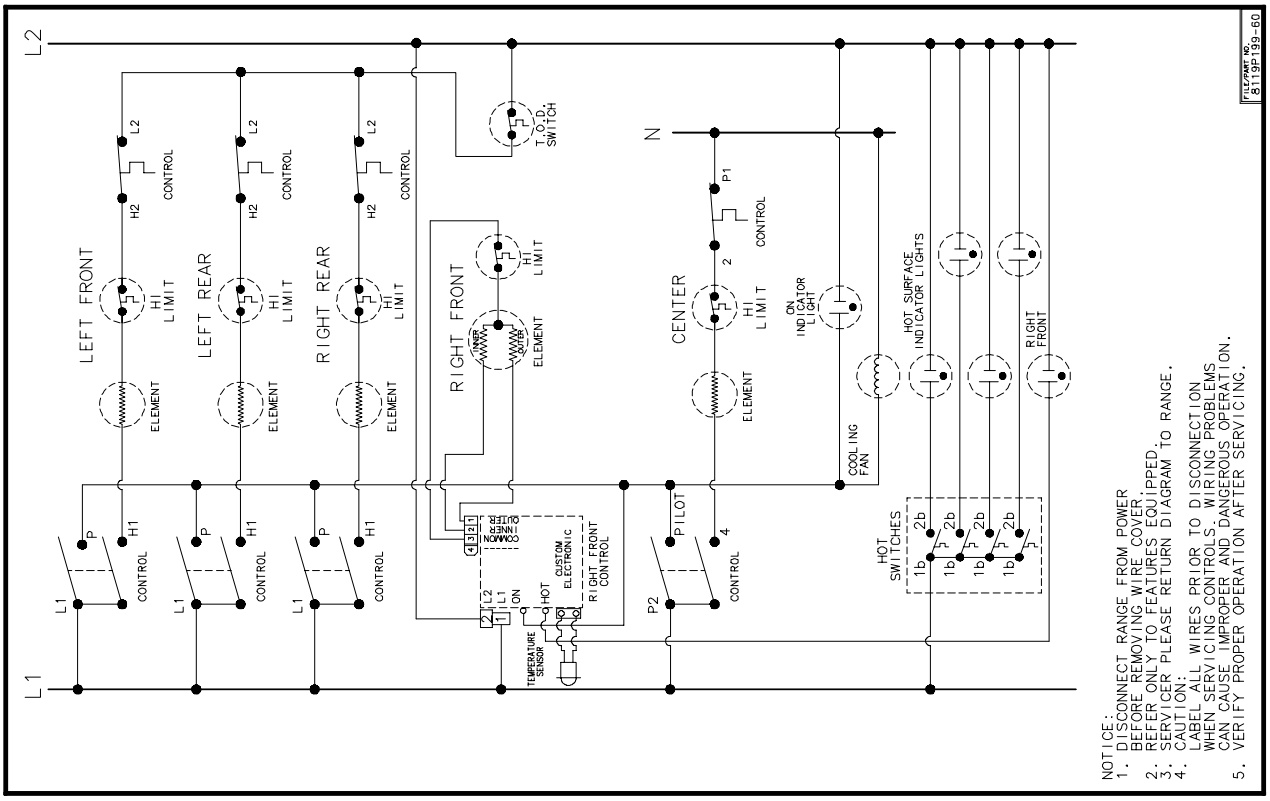

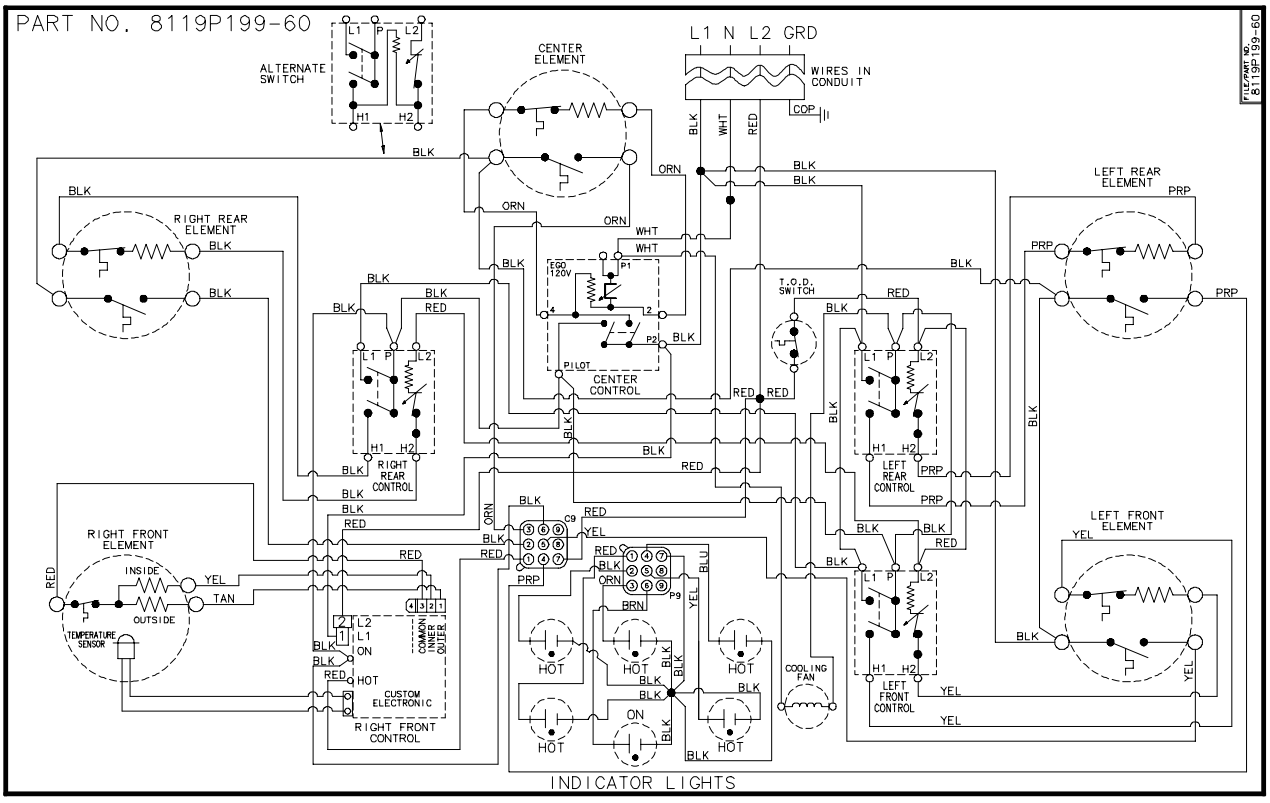

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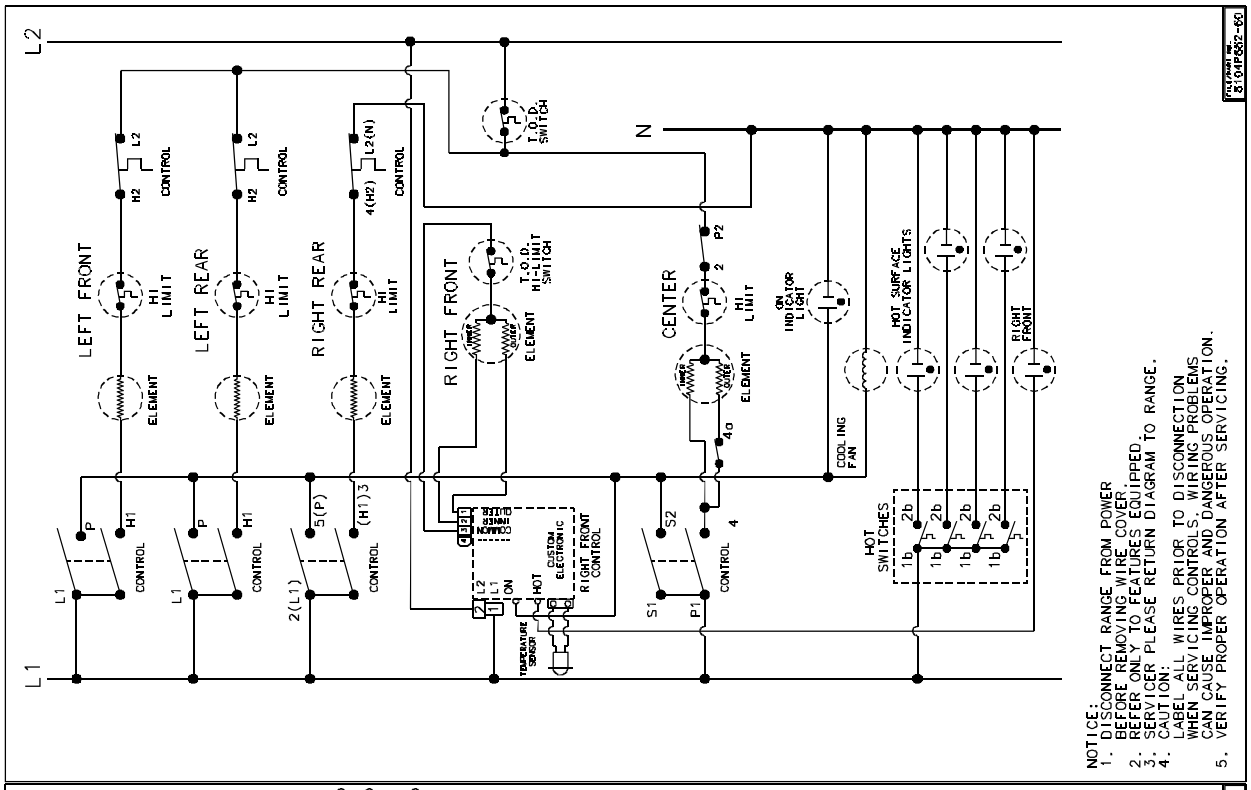

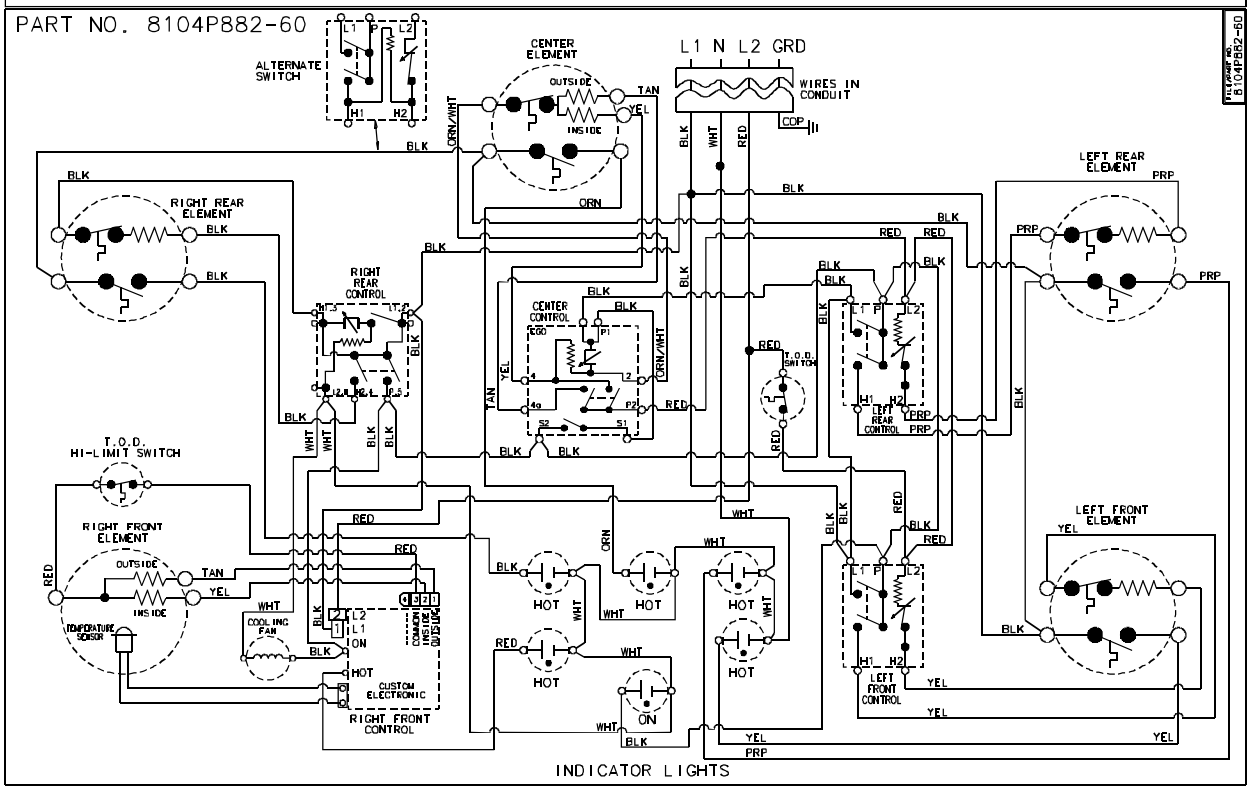

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Wiring Diagram and Schematic

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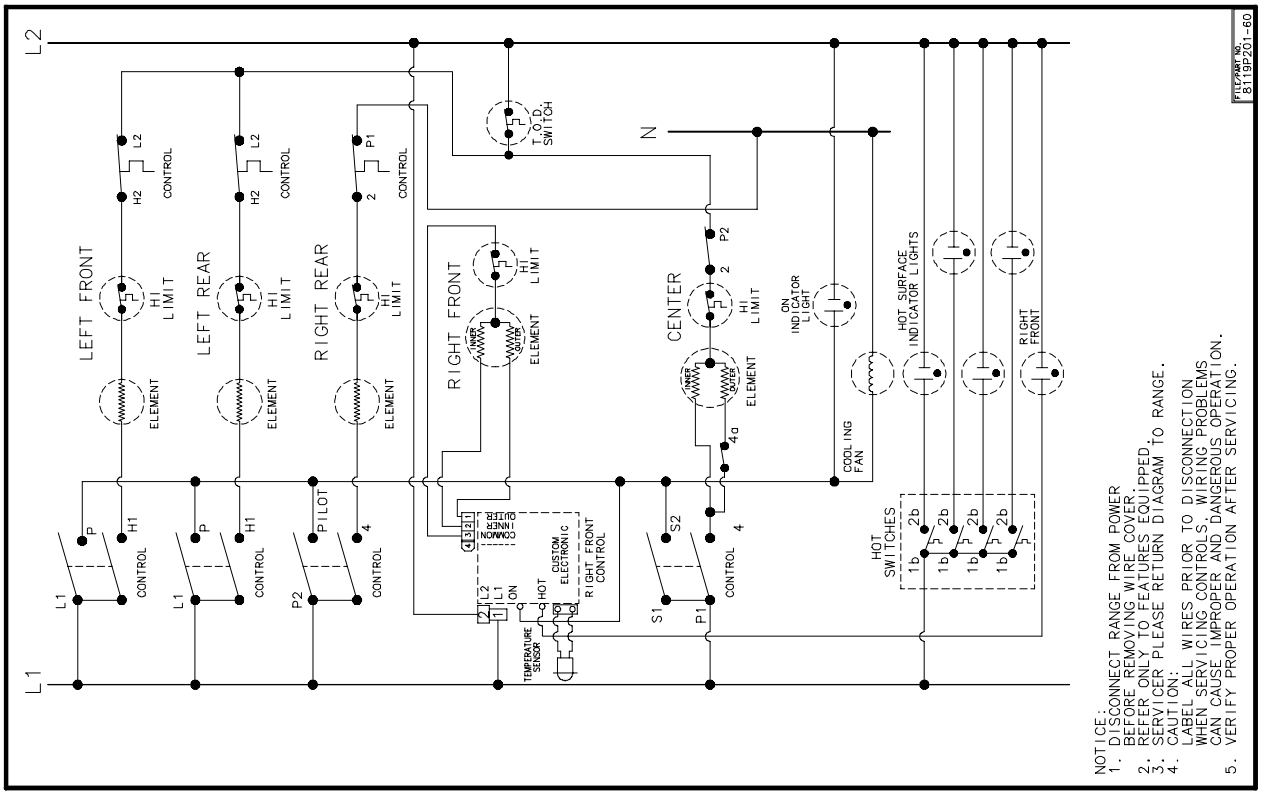

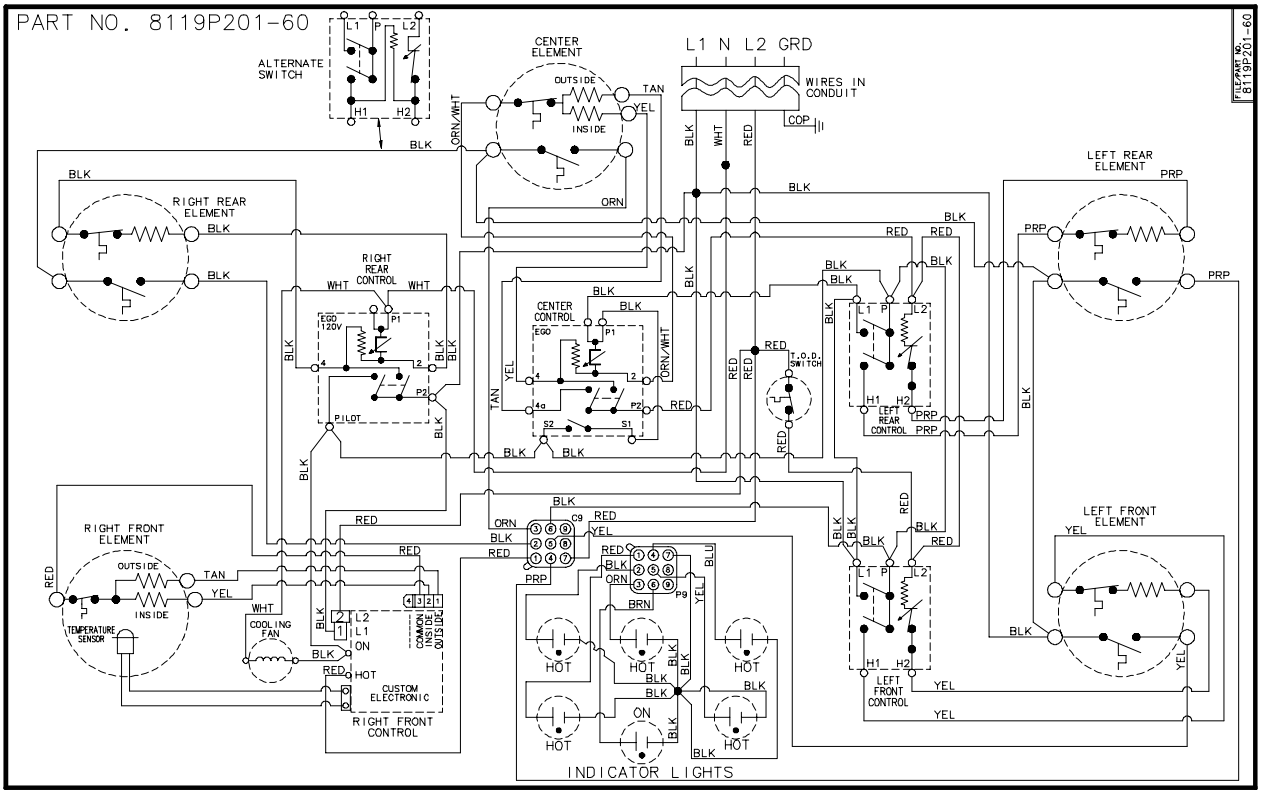

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