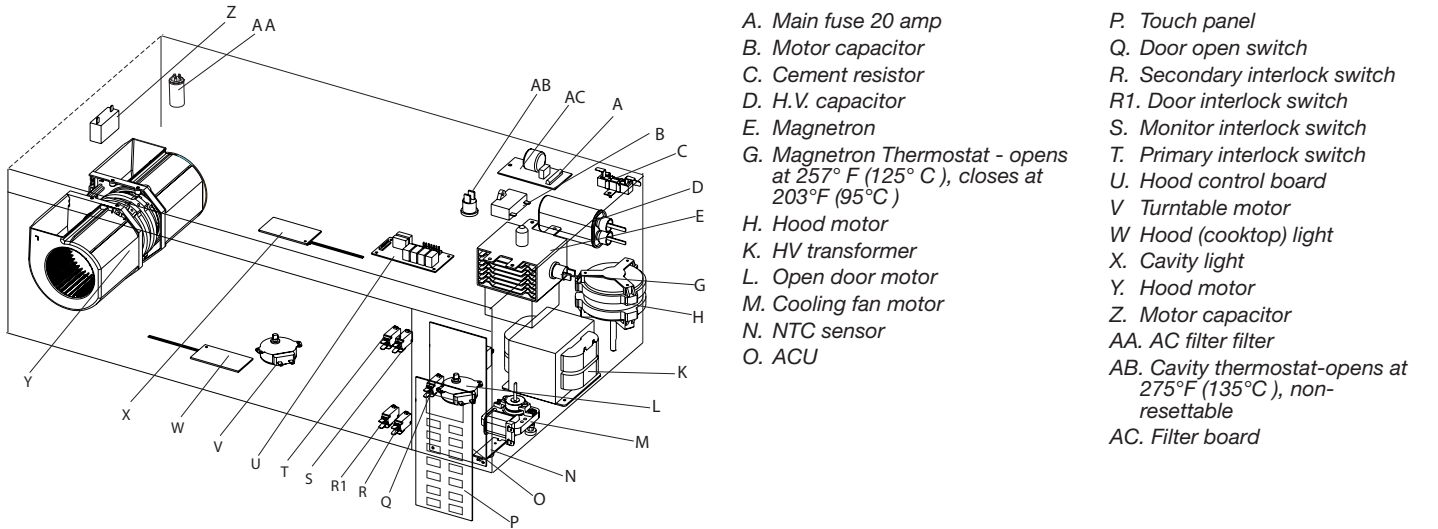


Do not discard

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Key Tables for Test Mode			
Key Name	The Upper Row Display	Function	Buzzer
Clock	value such as 0-200	NTC sensor check	1 beep
Start	ACU xx.xx.xx	ACU SW version check	1 beep
Start	UI:xx.xx.xx	UI SW version check	1 beep
Start	LT:xx	Left touch SW version check	1 beep
Start	RT:xx	Right touch SW version check	1 beep
Start	GEE:xx.xx.xx	GEE SW version check	1 beep
Hood Light	key 03	-	1 beep
Hood Fan	key 04	-	1 beep
Timer	key 05	-	1 beep
Turntable On/ Off	key 09	-	1 beep
Cook	value between 2000 and 9000	Humidity sensor check	1 beep
Power	-	-	1 beep
Reheat	key 24	-	1 beep
Defrost	key 29	-	1 beep
AccuPop	key 25	-	1 beep
Steam/Simmer	key 31	-	1 beep
0	key 10	-	1 beep

PARTS LAYOUT (NOT TO SCALE)



POWER OUTPUT MEASUREMENT

The power output of the magnetron can be measured using the following “Voltage Measurement at Power Source” and “Output Test” sections. Before you perform the test:

- Make sure that the oven cavity is cool and clean.
- Check the line voltage at the wall outlet while microwave oven is operating. See the “Voltage Measurement at Power Source” section.

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Tools Needed

- 2-cup measuring cup
- Thermometer
- Voltmeter/ohmmeter

Measure Voltage

Voltage Measurement at Power Source

1. Fill the measuring cup with 2 cups (500 mL) of tap water.
2. Place in the center of the microwave oven cavity.
3. Operate the microwave oven on high power for 1 minute.
4. While the microwave oven is operating, measure the line voltage at the power source. See “Measure Voltage” illustration.
5. Verify the voltage is constant during microwave oven operation. If voltage drops below 108 V, contact a qualified electrician to check your electrical supply.
6. Make note of the voltage while the microwave oven is running and proceed to the output test.

Output Test

1. Fill the measuring cup with 2 cups (500 mL) of 70°F (21°C) tap water.
2. Stir the water with the thermometer to ensure uniform temperature. Add warm or cool water to bring the water to the correct temperature.
3. Place the measuring cup in the center of the microwave oven cavity.
4. Operate the microwave oven on high power for 1 minute.
5. Remove the measuring cup and stir the water with the thermometer for about 20 seconds.
6. Record the temperature of the water.
7. Refer to the model serial tag on the microwave oven to acquire wattage output rating of the microwave oven.

Water Temperature for Line Voltage and Wattage Rating

Voltage	700 W	1000 W	1200 W
120 V	96°F to 102°F (36°C to 39°C)	110°F to 116°F (43°C to 47°C)	124°F to 130°F (51°C to 54°C)
108 V	91°F to 97°F (33°C to 36°C)	101°F to 107°F (38°C to 42°C)	111°F to 117°F (44°C to 47°C)

COMPONENT TESTS

IMPORTANT:

- Unplug microwave oven or disconnect power.
- Discharge the high-voltage capacitor and remove the lead wires from the primary winding of the high-voltage transformer before conducting any of the following tests.
- Remove the lead wires from the related component before conducting any of the following tests.
- All operational checks using microwave energy must be done with the microwave oven loaded with a minimum of 8 oz (250 mL) of water in a microwave-safe container.

- Conduct a microwave energy test after performing any tests or repairs to the microwave oven.
- Check that all wire leads are in the correct positions before operating the microwave oven.
- Grasp wire connectors when removing the wire leads from microwave oven parts.
- All testing must be done with an ohmmeter having a sensitivity of 20,000 ohms per volt DC or greater and powered by at least a 9 V battery.

Components	Test/Results
H.V. Transformer 	1. Unplug microwave oven or disconnect power. 2. Remove wire leads. 3. Measure resistance: ■ Primary winding: Less than 0.5 ohm (approximate) ■ Secondary winding: 120 ohms (approximate) ■ Filament winding: 0 ohms ■ Primary winding to grounding: Normal: Infinite ■ Filament winding to grounding: Normal: Infinite
Magnetron 	1. Unplug microwave oven or disconnect power. 2. Remove wire leads. 3. Measure resistance: ■ Filament terminal: Normal: Less than 1 ohm ■ Filament to chassis: Normal: Infinite

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Components	Test/Results
H.V. Capacitor 	1. Unplug microwave oven or disconnect power. 2. Remove wire leads. 3. Measure resistance: ■ Terminal to terminal: Normal: Momentarily indicates several ohms, gradually returns to Infinite ■ Terminal to case: Normal: Infinite
H.V. Diode 	NOTE: Some inexpensive meters may indicate infinite resistance in both directions. 1. Unplug microwave oven or disconnect power. 2. Measure resistance: ■ Forward: Normal: Continuity ■ Reverse: Normal: Infinite
Turntable Motor/Open Door Motor 	1. Unplug microwave oven or disconnect power. 2. Remove wire leads. 3. Measure resistance: ■ Normal: 2.4k to 3.2k ohms (approximate)
Motor Capacitor 	1. Unplug microwave oven or disconnect power. 2. Remove wire leads. 3. Measure resistance: ■ Normal: Momentarily 0 ohms, then goes to Infinite
Humidity Sensor PCBA 	1. Unplug microwave oven or disconnect power. 2. Remove the 4-pin connector from the cable. 3. Measure resistance across pins 1 and 2. ■ Normal: 10K ohms +/-5% at 77°F (25°C) 4. Measure capacity value across pins 3 and 4. ■ Normal: 180pF +/-5% at 55%RH
Hood Exhaust Fan Motor 	1. Unplug microwave oven or disconnect power. 2. Remove wire leads. 3. Measure resistance: ■ High Speed—Normal: Red (RD) and Blue (BU) wires: 70 to 170 ohms (approximate); Blue (BU) and Black (BK) wires: 20 to 100 ohms (approximate) ■ Middle Speed-Normal: Grey(GY) and Blue(BU) wires: 50 to 130 (approximate) ■ Low Speed—Normal: White(WH) and Blue (BU) wires: 60 to 160 ohms (approximate); Blue (BU) and White (WH) wires: 80 to 150 ohms (approximate)
HF NTC Thermistor 	1. If “NTC SHORT, CALL FOR SERVICE” or “NTC OPEN, CALL FOR SERVICE” scrolls on display, unplug microwave oven or disconnect power. 2. Measure hood thermistor: ■ Normal: 10k ohms +/-5% at 77°F (25°C)
AC Line Filter Board 	1. Unplug microwave oven or disconnect power. 2. Remove wire leads. 3. Measure resistance: ■ Normal: L-IN to L-OUT (coil): Less than 1 ohm; N-IN to N-OUT (coil): Less than 1 ohm
Thermostats 	NOTE: Refer to “Parts Layout” for opening and closing temperatures. 1. Unplug microwave oven or disconnect power. 2. Remove wire leads. 3. Measure continuity: ■ Normal: Continuity
Open Door Switch 	1. Unplug microwave oven or disconnect power. 2. Remove wire leads. 3. Make sure the switch is pressed 4. Measure resistance: ■ Normal: >1M ohm ■ Abnormal: <5 ohm

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