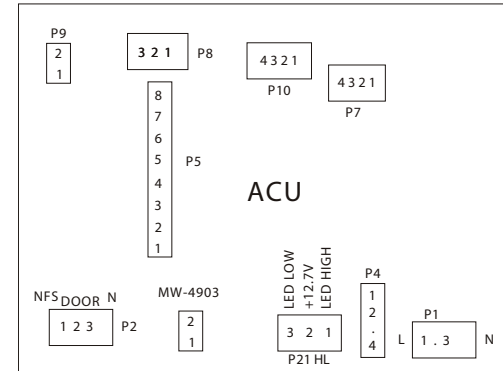


Do not discard

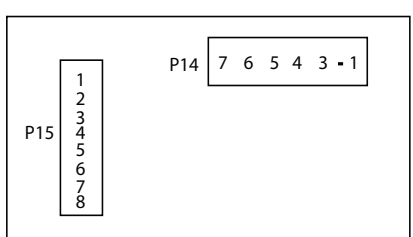
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CONNECTORS ON ACU



NOTE: There is an empty terminal on P1 and P4 connector.

CONNECTORS ON HOOD CONTROL BOARD



NOTE: There is an empty terminal on P14.

TOUCH PANEL

Touch Panel and ACU Test

The microwave hood combination is provided with a self-diagnostic routine that can be accessed through the touch keypad.

To initiate this routine:

1. Plug in microwave oven or reconnect power. In idle mode, close the door, turn off hood light and hood fan.
2. Close door, and then press CANCEL - CANCEL - START within 3 seconds.
All LED /LCD segments will be lit to indicate the Test mode has been entered.

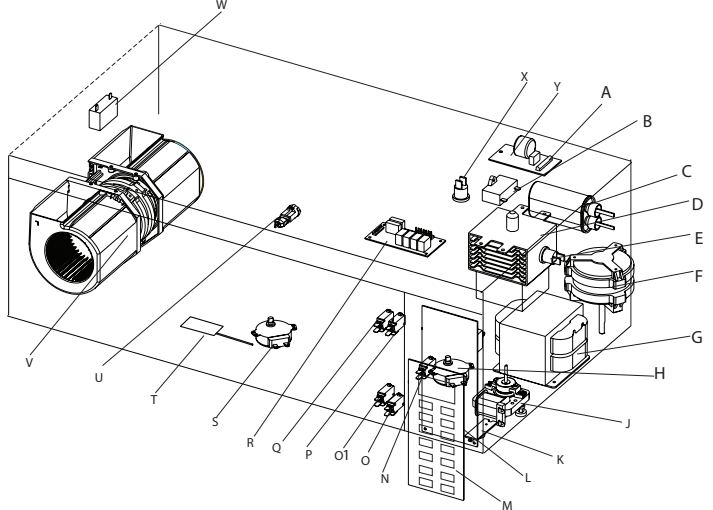
Key Tables for Test Mode

Key Name	Display	Function	Buzzer
Clock	value 0-200	NTC sensor check.	1 beep
Start	xxxx	ACU SW version check	1 beep
Start	xxxx	UI SW version check	1 beep
Hood light	3	-	1 beep
Hood fan	4	-	1 beep
Timer	5	-	1 beep
Cook	6	-	1 beep
Turntable On/ Off	9	-	1 beep
Power	-	-	1 beep
Reheat	24	-	1 beep
Frozen Entree	31	-	1 beep
Defrost	25	-	1 beep
AccuPop	29	-	1 beep
0	10	-	1 beep

Key Name	Display	Function	Buzzer
1	CL	Cavity lamp turn on	1 beep
2	11	-	1 beep
3	HF 1	Hood Fan turn on(Mid speed)	1 beep
4	8	-	1 beep
5	12:33	Standby power check	1 beep
6	HLH1	Hood Light turn on (high level)	1 beep
7	HLLO	Hood Light turn on (low level)	1 beep
8	HFH1	Hood Fan turn on (high speed)	1 beep
9	HFLO	Hood Fan turn on (low speed)	1 beep
Cancel	: or xx:xx	exit test mode to idle mode	1 beep

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PARTS LAYOUT (NOT TO SCALE)



- A. Main fuse 20 A
B. Motor capacitor
C. H.V. capacitor
D. Magnetron
E. Magnetron thermostat—opens at 293°F (145°C), closes at 221°F (105°C)
F. Hood motor
G. HV transformer
H. Open door motor
J. Cooling fan motor
K. NTC sensor
L. ACU
M. Touch panel
N. Door open switch
O. Secondary Interlock Switch
O1. Door Interlock Switch
P. Monitor Interlock Switch
Q. Primary Interlock Switch
R. Hood control board
S. Turntable motor
T. Hood (cooktop) light
U. Cavity light
V. Hood motor
W. Motor capacitor
X. Cavity thermostat opens at 221°F (105°C), non-resettable
Y. Filter board

POWER OUTPUT MEASUREMENT

Measure Voltage

The power output of the magnetron can be measured using the following "Voltage Measurement at Power Source" and "Output Test". 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 "Voltage Measurement at Power Source".

Tools Needed

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

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.

8. Using the following chart, determine if the output of the microwave oven is within the range listed based on the line voltage and wattage 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)

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COMPONENT TESTS

- 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.

IMPORTANT:

- 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
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
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

Components	Test/Results
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
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: 80 to 150 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 HF NTC 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

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SCHEMATIC DIAGRAM

