

# Commercial Microwave—Technical Information

## 208/230 VAC, 60 Hz Models

<b>RC17S2</b>	<b>P2001813M</b>	<b>MRC17S2</b>	<b>P2001814M</b>
<b>MRC17S2B</b>	<b>P2001819M</b>	<b>RC17SDOSI</b>	<b>P2001815M</b>
<b>RC22S2</b>	<b>P2001816M</b>	<b>MRC22S2</b>	<b>P2001817M</b>
<b>MRC22S2B</b>	<b>P2001820M</b>	<b>DQ22HSI2</b>	<b>P2001818M</b>

- 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 for installation, operating, testing, troubleshooting, and disassembly instruction.

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



### WARNING

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

<b>Models</b>	<b>RC17S2* MRC17S2 RC17SD2OSII</b>	<b>RC22S2 MRC22S2* DQ22HSI2</b>
<b>Power Source</b>		
Voltage AC	208/230 VAC	208/230 VAC
Amperage (Single Unit)	20 A	20 A
Frequency	60 Hz	60 Hz
Single Phase, 3 wire grounded	X	X
Receptacle	6-20R	6-20R
Plug	6-20P	6-20P
<b>Power Output – Microwave</b>		
Nominal microwave energy (IEC705)	1700 Watts	2200 Watts
Operating Frequency	2450 MHz	2450 MHz
<b>Power Consumption</b>		
Microwave only	2700 Watts	3200 Watts
<b>Dimensions</b>		
<b>Cabinet (in cm)</b>		
Width	19 1/4" 49 cm	19 1/4" 49 cm
Height	18 1/4" 46 cm	18 1/4" 46 cm
Depth	26 1/4" 67 cm	26 1/4" 67 cm
<b>Oven Interior (in cm)</b>		
Width	13" 33 cm	13" 33 cm
Height	8 1/2" 22 cm	8 1/2" 22 cm
Depth	15" 38 cm	15" 38 cm
<b>Weight</b>		
Uncrated	94 lbs.	94 lbs.
Crated	101 lbs.	101 lbs.

# Component Testing Procedures



## WARNING

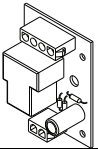
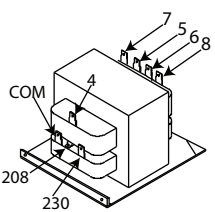
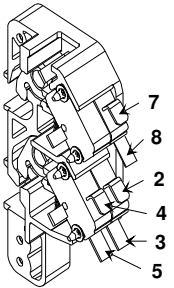
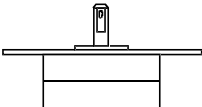
To avoid risk of electrical shock, personal injury or death; disconnect power to oven and discharge capacitor before servicing, unless testing requires power.

Illustration	Component	Test	Results
	Thermal cutout	Disconnect all wires from TCO. Measure resistance across terminals. Magnetron TCO..... Cavity TCO.....	Open at 300°F (149°C) and closed at 257°F (125°C) Opens at 262°F (128°C)
	Diode	<b>Discharge Capacitor</b>  Remove diode lead from capacitor and connect ohmmeter.  Reverse leads for second test.	Infinite resistance should be measured in one direction and 50KΩ or more in the opposite direction.  <b>NOTE:</b> Ohmmeter must contain a battery of 6 volts minimum.
	Triac	<b>Resistance Check</b> Disconnect wires to triac.  Measure resistance from: MT1 to MT2 ..... MT1 to Gate ..... MT2 to Gate ..... All terminals to ground.....	<b>Caution - Do not operate oven with wire to terminal MT2 removed.</b>  Infinite Approximately 60 Ω Infinite Infinite
Triac 1 (center) Triac 2 (left) Triac 3 (right)		<b>Voltage Check</b> Measure voltage from: MT1 to Gate	0.8 VAC when energized. If no voltage, check H.V. board and wiring.
	Capacitor  Some units may use more than one type of capacitor. Refer to Parts Manual for correct capacitor quantity.	<b>Discharge Capacitor</b>  Remove wires from capacitor terminals and connect ohmmeter, set on highest resistance scale to terminals.  Also check between each terminal and capacitor case.	Between Terminals: Meter should momentarily deflect towards zero then return to over 5 MΩ. If no deflection occurs, or if continuous deflection occurs, replace capacitor.  Terminal to Case: Infinite resistance
	Snubber assembly	Disconnect wires to snubber.  Measure resistance across terminals.....	Infinite
	Magnetron	<b>Discharge Capacitor</b>  Remove wires from magnetron and connect ohmmeter to terminals. Also check between each terminal and ground.	Between Terminals: Less than 1 Ω  Each terminal to ground measures Infinite resistance. <b>Note:</b> This test is not conclusive. If oven does not heat and all other components test good replace the magnetron and retest.
	Blower motor	Remove all wires from motor.  Measure resistance between: Orange and white terminals ..... Yellow and white terminals.....	Approximately 31 Ω Approximately 29 Ω

# Component Testing Procedures

## ⚠ WARNING

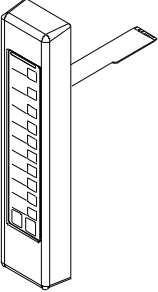
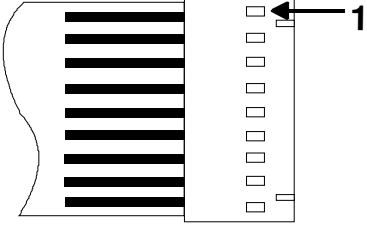
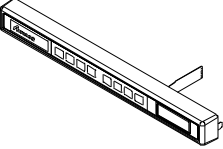
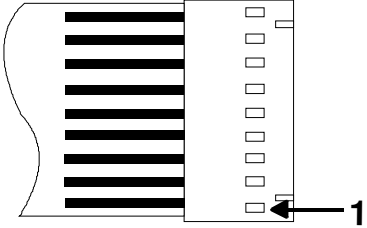
To avoid risk of electrical shock, personal injury or death; disconnect power to oven and discharge capacitor before servicing, unless testing requires power.

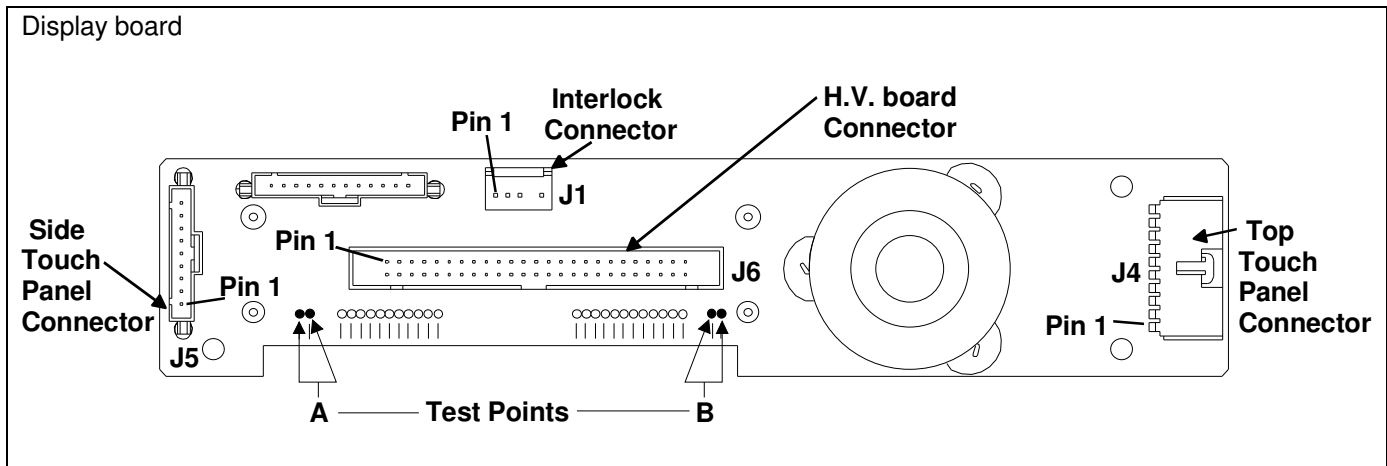
Illustration	Component	Test	Results
	Relay board	With power applied remove violet and brown 4 pin connector from J2 connector. With door closed measure resistance from: Pin 1 to pin 4 on J2 connector..... With door open measure resistance from: Pin 1 to pin 4 on J2 connector.....	Infinite Indicates continuity
	Transformer	<b>Discharge Capacitor</b> Remove all wires from terminals.  Measure resistance from: 230 to COM ..... 208 to COM ..... 230 to Ground ..... 208 to Ground ..... Terminal 5 to 6 ..... Terminal 7 to 8 ..... Terminal 4 to Ground .....	Less than 1 Ω Less than 1 Ω Infinite Infinite Less than 1 Ω Less than 1 Ω Approximately 27 Ω
	Interlock switch	Disconnect wires to switch.  With door open measure resistance from: Terminal 2 to 3 ..... Terminal 4 to 5 ..... Terminal 7 to 8 .....  With door closed measure resistance from: Terminal 2 to 3 ..... Terminal 4 to 5 ..... Terminal 7 to 8 .....	Infinite Infinite Infinite  Indicates continuity Indicates continuity Indicates continuity
	Antenna motor	Remove all wires from terminals.  Measure resistance from: Terminal to terminal.....	Approximately 12K Ω
Refer to Parts Manual for proper power cord part number.	Power cord	Measure resistance of wires.	Continuity should be indicated on each wire.  Verify polarity and grounding.

# Component Testing Procedures

## ⚠ WARNING

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

Illustration	Component	Test	Results		
	Side touch panel	Continuity is indicated as 100 $\Omega$ and below. 	<b>Pad</b> 1 2 3 4 5 6 7 8 9 0 Start Stop/Reset	<b>Trace</b> 3 & 5 3 & 6 3 & 7 3 & 8 3 & 9 4 & 5 4 & 6 4 & 7 4 & 8 4 & 9 5 & 6 6 & 9	<b>Measurement</b> Continuity Continuity Continuity Continuity Continuity Continuity Continuity Continuity Continuity Continuity Continuity Continuity
	Top touch panel	Removal of touch panel is required to perform test. Continuity is indicated as 100 $\Omega$ and below. 	<b>Pad</b> Time Entry Power Level Stage Program Save Quantity Menu Hidden Pad	<b>Trace</b> 5 & 7 5 & 8 5 & 9 6 & 7 6 & 8 7 & 9 8 & 9	<b>Measurement</b> Continuity Continuity Continuity Continuity Continuity Continuity Continuity



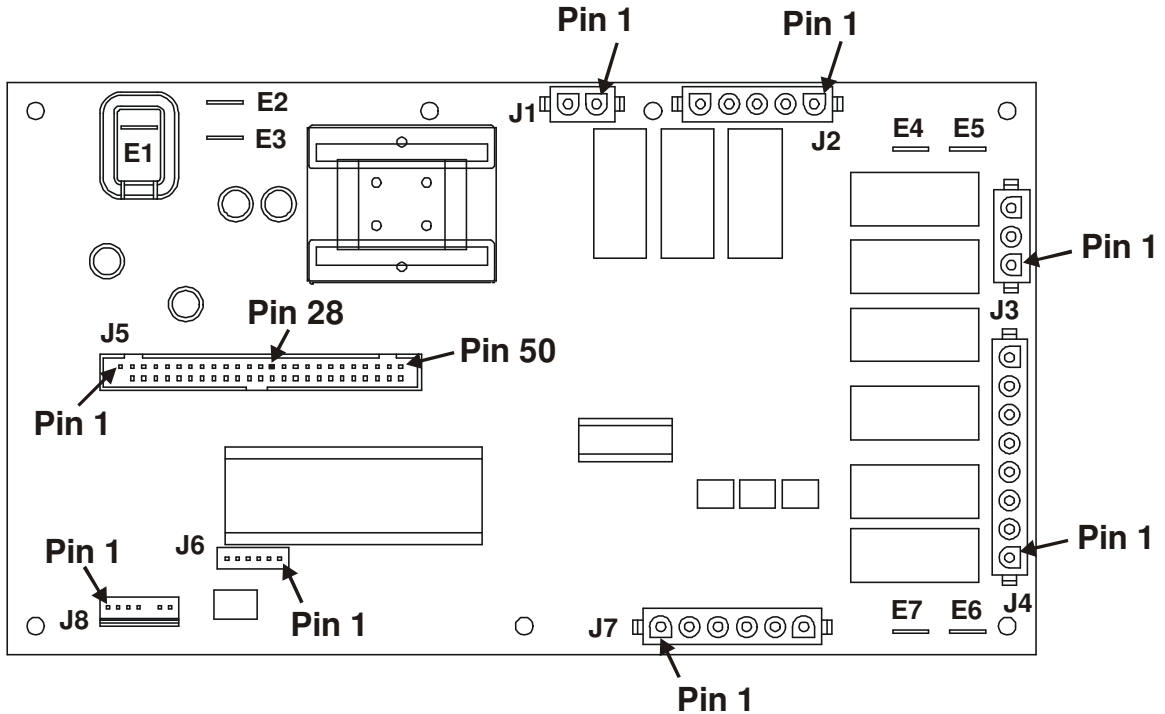
Function	Test Set-Up	Meter Setting	Probe Placement	Results
Input to Display Board	At Display Board	Volts	Test points A and B	3.0 VAC If voltage is present and no display is indicated, replace display board. If no voltage is present, check wire harness connections and H.V. board.

# Component Testing Procedures

## ⚠ WARNING

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

### H.V. board



Function	Test Set-Up	Meter Setting	Probe Placement	Results
Input to H.V. board	At H.V. board	Volts	J1 pin 1 (Brown wire) & J1 pin 2 (White wire)	Line voltage
Output to display board	Disconnect J5 connector, blower runs continuously	Volts	J5 pin 28 & J5 pin 50	- 24 VDC

**NOTE:** For the following test, place oven in Service Test Mode (see page 11).

Relay	Function	Test Set-Up	Meter Setting	Probe Placement	Results
K1 at 230 VAC line voltage	Blower motor Antenna motor Cavity light	Disconnect J2 connector	Ohms	J1 pin 1 (Brown wire) & J2 pin 4	Test mode 5 off – no continuity Test mode 5 on – < 1 Ω
K2 at 208 VAC line voltage	Blower motor Antenna motor Cavity light	Disconnect J2 connector	Ohms	J1 pin 1 (Brown wire) & J2 pin 3	Test mode 5 off – no continuity Test mode 5 on – < 1 Ω

# Component Testing Procedures



## WARNING

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### H.V. Board – Relay Test

Relay	Function	Test Set-Up	Meter Setting	Probe Placement	Results
K8	Magnetron 1 (Top rear) at 230 VAC	All wires connected to H.V. board	VAC	E5 (Red wire) & J4 pin 2 (Red wire)	Test mode 1 off – line voltage Test mode 1 on – 0 volts
K9	Magnetron 1 (Top rear) at 208 VAC	All wires connected to H.V. board	VAC	E5 (Red wire) & J4 pin 1 (White wire)	Test mode 1 off – line voltage Test mode 1 on – 0 volts
K6	Magnetron 3 (Bottom) at 230 VAC	All wires connected to H.V. board	VAC	J4 pin 4 (Black wire) & J4 pin 6 (Black wire)	Test mode 3 off – line voltage Test mode 3 on – 0 volts
K7	Magnetron 3 (Bottom) at 208 VAC	All wires connected to H.V. board	VAC	J4 pin 4 (Black wire) & J4 pin 5 (Brown wire)	Test mode 3 off – line voltage Test mode 3 on – 0 volts

# Power Testing Procedure



## WARNING

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All Amana and Menumaster microwave oven power outputs are rated using the IEC705 standards. Using the IEC705 test method requires precision measurements and equipment that is not practical to be performed in the field. Using the test shown below will indicate if the oven performance is satisfactory.

### Test equipment required:

- 1000 ml test container and thermometer (ACP power test bowl part # 12018801).
- Digital watch / watch with a second hand for use on ovens with electromechanical timers.

### Important Notes:

- Low line voltage will cause low temperature rise / power output.
- Ovens must be on a dedicated circuit, properly grounded, and polarized. Other equipment on the same circuit may cause a low temperature rise / power output.
- This test and results are not a true IEC705 test procedure and are only intended to provide servicers with an easy means of determining if the microwave oven cooking output is correct.

### Procedure

1. Fill the test container to the 1000 ml line with cool tap water.

**NOTE:** Water temperature should be approximately 60°F / 16°C

2. Using the thermometer, stir water for five to ten seconds; measure, and record the temperature (T1).
3. Place test container of water in the center of oven cavity and close door.
4. Heat the water for a 33-second full power cycle.

**NOTE:** Use a digital watch or a watch with a second hand for ovens with electromechanical timers.

5. At end of the cycle, remove test container. Using the thermometer, stir water for five to ten seconds and record temperature (T2).
6. Subtract the starting water temperature (T1), from the ending water temperature (T2) to obtain the temperature rise ( $\Delta T$ ).
7. If the temperature rise ( $\Delta T$ ) meets or exceeds the minimum, the test is complete. If the temperature rise ( $\Delta T$ ) fails to meet the minimum temperature rise, test the line voltage to verify it is correct. Then repeat steps 1 - 6 making sure to change the water. If the temperature rise ( $\Delta T$ ) fails to meet the minimum temperature rise again the oven will require service.

**Minimum Temperature Rise at Thirty -Three (33) Seconds Run Time**

$\Delta T$ (°F)	Cooking Power Output	$\Delta T$ (°F)	Cooking Power Output	$\Delta T$ (°C)	Cooking Power Output	$\Delta T$ (°C)	Cooking Power Output
10.....	1000	20 .....	2000	5 .....	1000	11 .....	2000
11.....	1100	21 .....	2100	5.5.....	1100	11.5.....	2100
12.....	1200	22 .....	2200	6.5.....	1200	12 .....	2200
14.....	1400	24 .....	2400	7.5.....	1400	13 .....	2400
17.....	1700	25 .....	2500	9.5.....	1700	13.5.....	2500
18.....	1800	27 .....	2700	10.....	1800	15.....	2700
19.....	1900	30 .....	3000	10.5.....	1900	16.5.....	3000

# Display Diagnostics

## **WARNING**

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## **CAUTION**

All repairs as described in this troubleshooting section are to be performed only after the caution procedures one through eight listed below have been followed.

1. Check grounding before checking for possible causes.
2. Be careful of the high voltage circuit.
3. Discharge high voltage capacitor.
4. When checking the continuity of the switches or the high voltage transformer, disconnect one lead wire from these parts and then check continuity with the AC plug removed. To do otherwise may result in a false reading or damage to your meter.
5. Do not touch any parts of the circuitry on the P.C. Board circuit since static electric discharge may damage this control panel. Always touch yourself to ground while working on this panel to discharge any static charge in your body.
6. 208/230 VAC is present in the high voltage circuit board, power relay and primary circuit of low voltage transformer.
7. When troubleshooting, be cautious of possible electrical hazard.

## Error Codes

During operation, the display may show the following service codes:

**NOTE:** Before scheduling service for any error codes, instruct customer to unplug oven for 1 minute, reconnect power, and retest. If unit operates properly, no service call is required.

Display	Description	Corrective Action
Err1	Failed H.V. Board	Replace H.V. board.
Err2	Shorted Touch Panel Failed H.V. Board Shorted Display Board Shorted Cable HV to Display Board	Replace Touch Panel. Replace H.V. board. Replace Display Board. Replace Cable.
Err3	Failed H.V. Board	Replace H.V. board.
Err4	Failed H.V. Board	Replace H.V. board.
Err5	Shorted Touch Panel	<b>NOTE:</b> If Touch Panel is pressed for more than 30 seconds, this error code will appear. 1. Disconnect oven from power supply. 2. Disconnect side touch panel connector from display board (J5). 3. Reconnect oven to power supply. 4. If "Err5" reappears after 30 seconds, replace top touch panel. 5. If "Err5" does not reappear after 30 seconds, replace side touch panel.
Err6	Failed H.V. Board	Replace H.V. board.
HOT		<ul style="list-style-type: none"> <li>• Open TCO (magnetron).</li> <li>• Blower motor inoperative.</li> <li>• Restricted air filter.</li> <li>• High ambient temperature.</li> <li>• Oven operated empty or with light loads.</li> <li>• Broken or loose wire.</li> <li>• H.V. board inoperative.</li> </ul>
Door	Door Interlock Primary Switch	<ul style="list-style-type: none"> <li>• Verify latch mechanism moves freely on door.</li> <li>• Verify J1 connector on display board is properly seated.</li> <li>• Test interlock switch assembly and perform door adjustment if necessary.</li> <li>• Replace interlock switch assembly.</li> </ul>

# Service Test

NOTE: Unit must be in OFF condition  
or  
INITIAL power up mode.

To Enter Service Test Mode, oven door must be closed.

NOTE: Pads will not beep when accessing Service Test Mode.  
To EXIT Service Test Mode press STOP/RESET pad.



<b>Mode Name</b>	Service Mode																																								
<b>Entry</b>	Pressing Hidden Pad, 1, 3, 5, 7, 9 while in the ready mode:																																								
<b>Functional Description</b>	Main Service Mode Menu																																								
<b>Display</b>	<table border="1"> <tr> <td></td><td></td><td></td><td></td><td>S</td><td>e</td><td>r</td><td>v</td><td>i</td><td>c</td><td>e</td><td></td><td>M</td><td>o</td><td>d</td><td>e</td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td>6</td><td>0</td><td></td><td></td><td>H</td><td>Z</td><td></td><td></td><td>2</td><td>0</td><td>8</td><td></td><td>V</td><td></td><td></td><td></td> </tr> </table>					S	e	r	v	i	c	e		M	o	d	e									6	0			H	Z			2	0	8		V			
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				6	0			H	Z			2	0	8		V																									

**Pad 1**

<b>Mode Name</b>	Service Pad 1																																								
<b>Entry</b>	Pressing Pad 1 while in Service Mode																																								
<b>Functional Description</b>	Magnetron #1 shall be toggled. When on, it shall run for 62 seconds.																																								
<b>Display</b>	<table border="1"> <tr> <td></td><td></td><td>M</td><td>a</td><td>g</td><td>n</td><td>e</td><td>t</td><td>r</td><td>o</td><td>n</td><td></td><td>#</td><td>1</td><td>:</td><td></td><td>O</td><td>N</td><td></td><td></td> </tr> <tr> <td></td><td></td><td>0</td><td>0</td><td>:</td><td>4</td><td>5</td><td></td><td></td><td></td><td>A</td><td>m</td><td>p</td><td>s</td><td>:</td><td></td><td>1</td><td>2</td><td></td><td></td> </tr> </table>			M	a	g	n	e	t	r	o	n		#	1	:		O	N					0	0	:	4	5				A	m	p	s	:		1	2		
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		0	0	:	4	5				A	m	p	s	:		1	2																								

**Pad 2**

<b>Mode Name</b>	Service Pad 2																																								
<b>Entry</b>	Pressing Pad 2 while in Service Mode																																								
<b>Functional Description</b>	Magnetron #2 shall be toggled. When on, it shall run for 62 seconds.																																								
<b>Display</b>	<table border="1"> <tr> <td></td><td></td><td>M</td><td>a</td><td>g</td><td>n</td><td>e</td><td>t</td><td>r</td><td>o</td><td>n</td><td></td><td>#</td><td>2</td><td>:</td><td></td><td>O</td><td>N</td><td></td><td></td> </tr> <tr> <td></td><td></td><td>0</td><td>0</td><td>:</td><td>4</td><td>5</td><td></td><td></td><td></td><td>A</td><td>m</td><td>p</td><td>s</td><td>:</td><td></td><td>1</td><td>2</td><td></td><td></td> </tr> </table> <p><b>Note:</b> Not applicable on two magnetron models:</p>			M	a	g	n	e	t	r	o	n		#	2	:		O	N					0	0	:	4	5				A	m	p	s	:		1	2		
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		0	0	:	4	5				A	m	p	s	:		1	2																								

**Pad 3**

<b>Mode Name</b>	Service Pad 3																																								
<b>Entry</b>	Pressing Pad 3 while in Service Mode																																								
<b>Functional Description</b>	Magnetron #3 shall be toggled. When on, it shall run for 62 seconds.																																								
<b>Display</b>	<table border="1"> <tr> <td></td><td></td><td>M</td><td>a</td><td>g</td><td>n</td><td>e</td><td>t</td><td>r</td><td>o</td><td>n</td><td></td><td>#</td><td>3</td><td>:</td><td></td><td>O</td><td>N</td><td></td><td></td> </tr> <tr> <td></td><td></td><td>0</td><td>0</td><td>:</td><td>4</td><td>5</td><td></td><td></td><td></td><td>A</td><td>m</td><td>p</td><td>s</td><td>:</td><td></td><td>1</td><td>2</td><td></td><td></td> </tr> </table>			M	a	g	n	e	t	r	o	n		#	3	:		O	N					0	0	:	4	5				A	m	p	s	:		1	2		
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# Service Test

<b>Pad 5</b>	<b>Mode Name</b>	Service Pad 5																																							
	<b>Entry</b>	Pressing Pad 5 while in Service Mode																																							
	<b>Functional Description</b>	Auxiliary Output shall be toggled.																																							
	<b>Display</b>	<table border="1"> <tr> <td></td><td></td><td></td><td>A</td><td>u</td><td>x</td><td>.</td><td></td><td>O</td><td>u</td><td>t</td><td>p</td><td>u</td><td>t</td><td>:</td><td></td><td>O</td><td>N</td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>				A	u	x	.		O	u	t	p	u	t	:		O	N																					
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<b>Pad 7</b>	<b>Mode Name</b>	Service Pad 7																																							
	<b>Entry</b>	Pressing Pad 7 while in Service Mode																																							
	<b>Functional Description</b>	Displays Tube Hours stored in EEPROM																																							
	<b>Display</b>	<table border="1"> <tr> <td></td><td></td><td></td><td>M</td><td>a</td><td>g</td><td>n</td><td>e</td><td>t</td><td>r</td><td>o</td><td>n</td><td></td><td>H</td><td>o</td><td>u</td><td>r</td><td>S</td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0</td><td>0</td><td>1</td><td>7</td><td>4</td><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>				M	a	g	n	e	t	r	o	n		H	o	u	r	S										0	0	1	7	4	3						
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							0	0	1	7	4	3																													

<b>Pad 8</b>	<b>Mode Name</b>	Service Pad 8																																					
	<b>Entry</b>	Pressing Pad 8 while in Service Mode																																					
	<b>Functional Description</b>	Displays Door Cycles stored in EEPROM. Will always be a multiple of ten.																																					
	<b>Display</b>	<table border="1"> <tr> <td></td><td></td><td></td><td></td><td>D</td><td>o</td><td>o</td><td>r</td><td></td><td>C</td><td>y</td><td>c</td><td>l</td><td>e</td><td>s</td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td>0</td><td>0</td><td>2</td><td>4</td><td>5</td><td>3</td><td>8</td><td>0</td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>					D	o	o	r		C	y	c	l	e	s										0	0	2	4	5	3	8	0					
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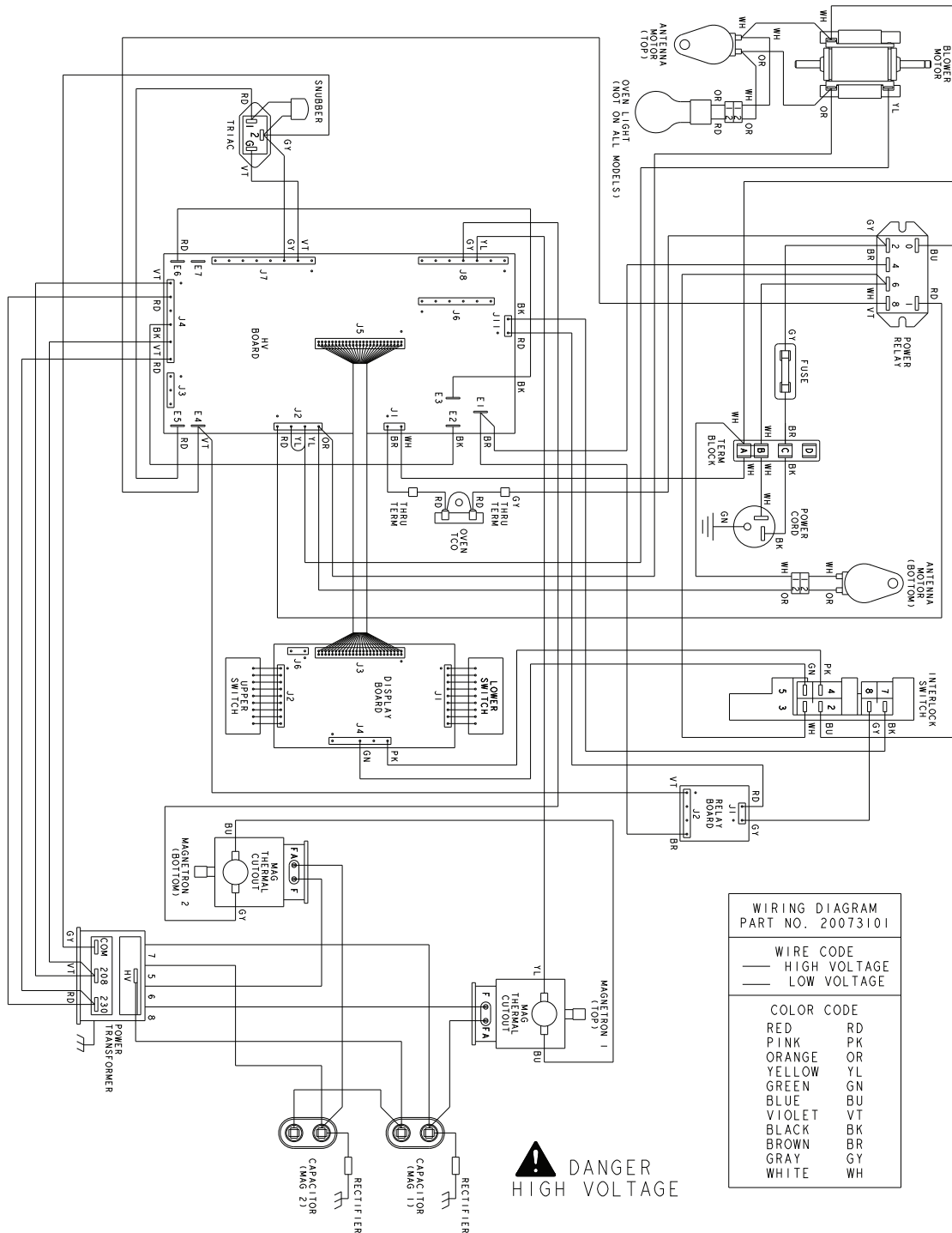
<b>Pad 9</b>	<b>Mode Name</b>	Service Pad 9																																					
	<b>Entry</b>	Pressing Pad 9 while in Service Mode																																					
	<b>Functional Description</b>	Prompts user to clear service information.																																					
	<b>Display</b>	<table border="1"> <tr> <td></td><td></td><td>P</td><td>r</td><td>e</td><td>s</td><td>s</td><td></td><td>S</td><td>T</td><td>A</td><td>R</td><td>T</td><td></td><td>t</td><td>o</td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td>C</td><td>l</td><td>e</td><td>a</td><td>r</td><td></td><td>s</td><td>e</td><td>r</td><td>v</td><td>.</td><td></td><td>i</td><td>n</td><td>f</td><td>o</td><td></td> </tr> </table>			P	r	e	s	s		S	T	A	R	T		t	o						C	l	e	a	r		s	e	r	v	.		i	n	f	o
		P	r	e	s	s		S	T	A	R	T		t	o																								
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# Wiring Diagram and Schematic



**WARNING**

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



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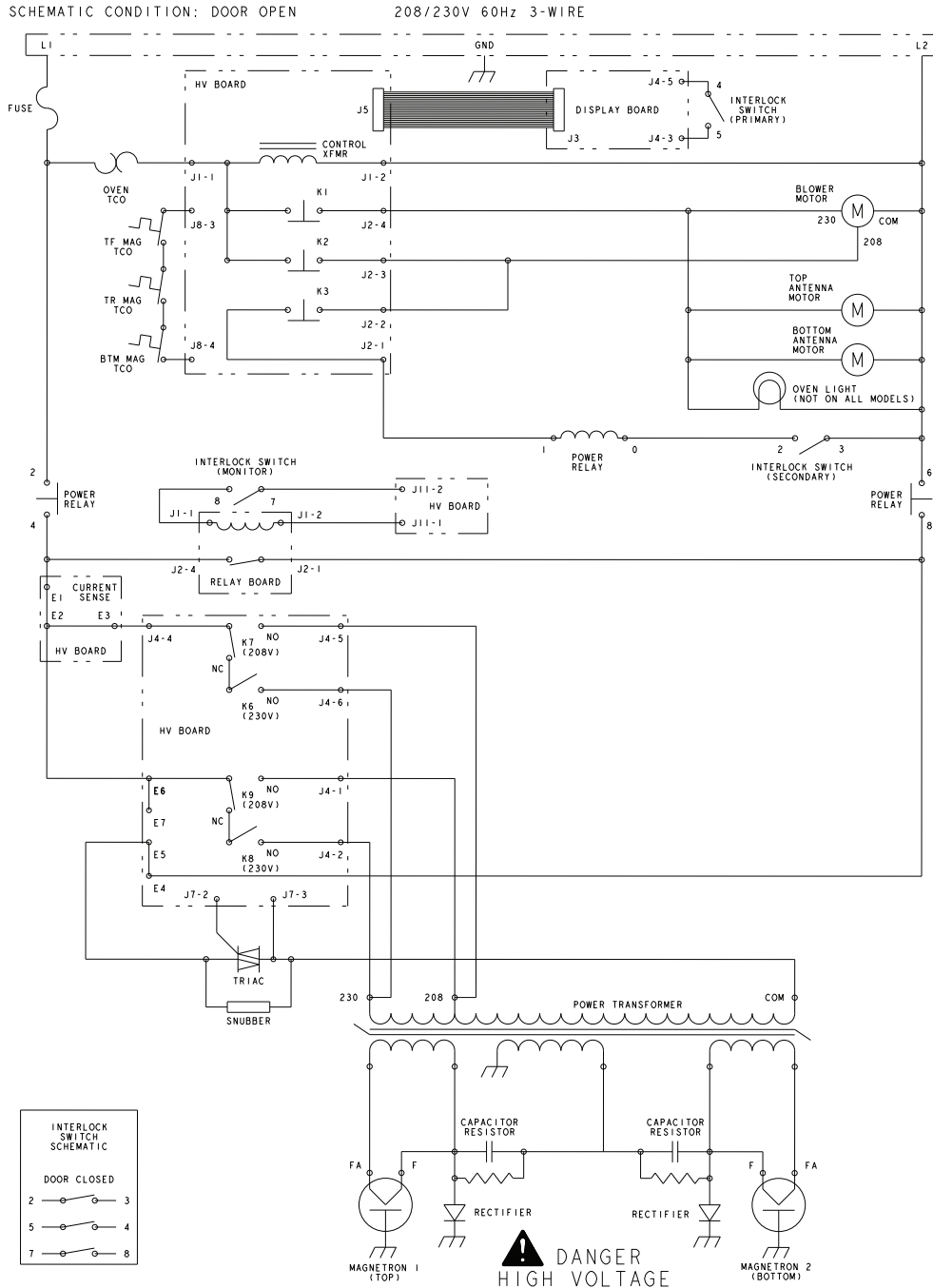
DQ22HSI2 RC17S2 MRC17S2 RC17SDOSI RC22S2 MRC22S2

# Wiring Diagram and Schematic



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DQ22HSI2 RC17S2 MRC17S2 RC17SDOSI RC22S2 MRC22S2