

Microwave Oven Service Manual

RCS10DA

CAUTION

BEFORE SERVICING THE UNIT, READ THE SAFETY PRECAUTIONS IN THIS MANUAL.

SAFETY PRECAUTIONS

This device is to be serviced only by properly qualified service personnel.

Consult the service manual for proper service procedures to assure continued safety operation and for precautions to be taken to avoid possible exposure to excessive microwave energy.

PRECAUTIONS TO BE OBSERVED BEFORE AND DURING SERVICING TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY

- A) Do not operate or allow the oven to be operated with the door open.
- B) Make the following safety checks on all ovens to be serviced before activating the magnetron or other microwave source, and make repairs as necessary; (1) interlock operation, (2) proper door closing, (3) seal and sealing surfaces (arcing, wear, and other damage), (4) damage to or loosening of hinges and latches, (5) evidence of dropping or abuse.
- C) Before turning on microwave power for any service test or inspection within the microwave generating compartments, check the magnetron, wave guide or transmission line, and cavity for proper alignment, integrity, and connections.
- D) Any defective or misadjusted components in the interlock, monitor, door seal, and microwave generation and transmission systems shall be repaired, replaced, or adjusted by procedures described in this manual before the oven is released to the owner.
- E) A microwave leakage check to verify compliance with the Federal Performance Standard should be performed on each oven prior to release to the owner.

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SPECIFICATIONS

ITEM	DESCRIPTION	
MODEL	RCS10DA	
Power Requirement	120 Volts AC 60 Hz	
	1,500 Watts	
	Single phase, 3 wire grounded	
Power Output	1,000 Watts full microwave power (IEC 60705)	
Microwave Frequency	2,450 MHz	
Magnetron	2M248	
Timer	0 ~ 6 min.	
Outside Dimensions	21 ³ / ₄ " (W) x 14 ¹ / ₄ " (H) x 17 ⁷ / ₈ " (D)	
Cavity Dimensions	14 ¹ /4" (W) x 8 ⁷ /8" (H) x 16 ³ /8" (D)	
Net Weight	51 lbs (approx.)	
Shipping weight	58 lbs (approx.)	
Control Complement	Mecharical Rotary System	
	Full Power Cooking	
Nameplate Location	Back side	

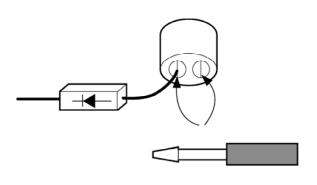
This microwave oven is designed for commercial use only.

It is not recommended for built-in Installation.

CAUTIONS

Unlike other appliances, the microwave oven is high-voltage and high-current equipment. Though it is free from danger in ordinary use, extreme care should be taken during repair.

- DO NOT operate on a 2-wire extension cord during repair and use.
- NEVER TOUCH any oven components or wiring during operation.
- BEFORE TOUCHING any parts of the oven, always remove the power plug from the outlet.
- For about 30 seconds after the oven stops, an electric charge remains in the high voltage capacitor. When replacing or checking, you must discharge the high voltage capacitor by shorting across the two terminals with an insulated screwdriver.

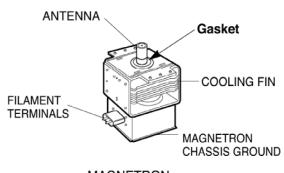


- Remove your watches whenever working close to or replacing the Magnetron.
- DO NOT touch any parts of the control panel circuit. A resulting static electric discharge may damage this P.C.B.
- NEVER operate the oven with no load.
- NEVER injure the door seal and front plate of the oven cavity.
- NEVER put iron tools on the magnetron.
- NEVER put anything into the latch hole and the interlock switches area.

MICROWAVE RADIATION

Personnel should not be exposed to the microwave energy which may radiate from the magnetron or other microwave generating device if it is improperly used or connection. All input and output microwave connections, waveguide, flange, and gasket must be secure never operate the device without a microwave energy absorbing load attached. Never look into an open waveguide or antenna while the device is energized.

- Proper operation of the microwave oven requires that the magnetron be assembled to the waveguide and cavity. Never operate the magnetron unless it is properly installed.
- Be sure that the magnetron gasket is properly installed around the dome of the tube whenever installing the magnetron.



MAGNETRON

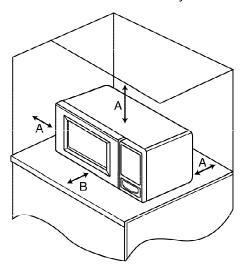
THE OVEN IS TO BE SERVICED ONLY BY PROPERLY QUALIFIED SERVICE PERSONNEL.

INSTALLATIONS

BEFORE YOU BEGIN, READ THE FOLLOWING INSTRUCTIONS COMPLETELY AND CAREFULLY.

INSTALLING

- 1. Empty the microwave oven and clean inside it with a soft, damp cloth. Check for damage such as misaligned door, damage around the door or dents inside the cavity or on the exterior.
- 2. Put the oven on a counter, table, or shelf that is strong enough to hold the oven and the food and utensils you put in it. (The control panel side of the oven is the heavy side. Use care when handling.)
- Do not block the vent and the air intake openings.
 Blocking vent or air intake openings can cause
 damage to the oven and poor cooking results. Make
 sure the microwave oven legs are in place to ensure
 proper air flow.
- 4. The oven should not be installed in any area where heat and steam are generated, because they may damage the electronic or mechanical parts of the unit. Do not install the oven next to a conventional surface unit or above a conventional wall oven.
- 5. Use microwave oven in an ambient temperature less than 104°F(40°C).
- Place the microwave oven as far away as possible from TV, RADIO, COMPUTER, etc., to prevent interference.
- 7. Place the microwave oven on a stardy and flat surface.



- A Allow at least 11/2 inches (3.81 centimeters) of clearance around top and sides of equipment. Proper air flow around equipment cools electrical components. With restricted air flow, oven may not operate properly and life of electrical parts is reduced.
- B Allow at least 3 inches from door front to edge of countertop to avoid accidental tipping of oven.

GROUNDING INSTRUCTIONS

For personal safety, this appliance must be fully grounded at all times.

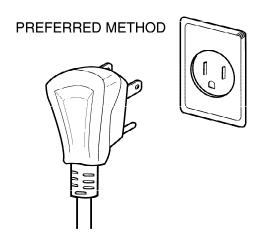
In the event of an electrical short circuit, grounding reduces the risk of electrical shock.

The plug must be plugged into an outlet that is properly installed and grounded.

WARNING

Improper use of the grounding plug can result in a risk of electric shock.

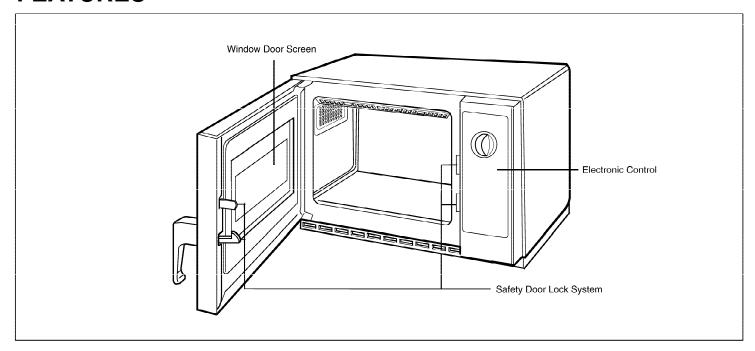
Do not, under any circumstances, cut or remove the third ground prong from the power cord plug.



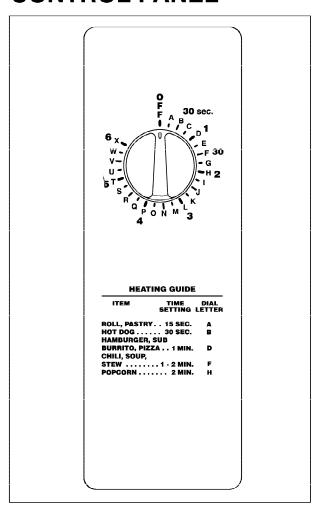
ENSURE PROPER GROUND EXISTS BEFORE USE

OPERATING INSTRUCTIONS

FEATURES



CONTROL PANEL



Heating



To avoid damaging oven, only heat in microwave oven when turntable is in place.

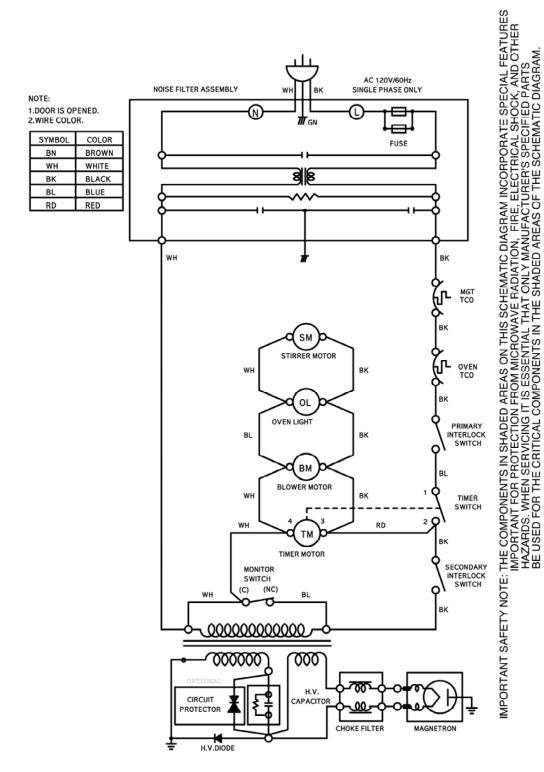
A CAUTION

To avoid fire, do not dry newspapers or clothes in microwave oven.

- 1. Open oven door, place food in oven and close door.
- 2. Set timer knob to desired cooking time by turning clockwise.
 - Turn timer knob slightly past, and then back to desired cooking time for the most accurate time setting.
 - Heating begins.
- 3. When time has elapsed, bell sounds and oven shuts off.

Pausing or Stopping Operation

- 1. Open oven door.
 - Oven stops cooking.
 - Timer maintains current time setting.
- 2. Cooking resumes when door is closed.
- 3. Turn timer knob counterclockwise to "OFF" to clear all cooking time.



NOTICE: SINCE THIS IS A BASIC SCHEMATIC DIAGRAM, THE VALUES OF COMPONENTS AND SOME PARTIAL CONNECTIONS ARE SUBJECT TO CHANGE FOR IMPROVEMENT.

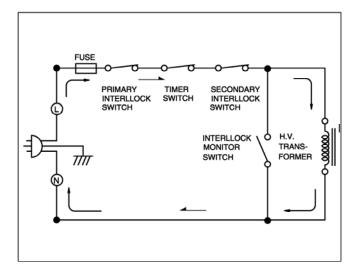
CIRCUIT DESCRIPTION

GENERAL DETAILS

- When the door is closed, the primary switch is ON, the secondary switch is ON, and the monitor switch opens (contact COM and NO).
- The latches are secured by the latch board, the oven light turns on while the oven is operation.

WHEN THE TIMER KNOB IS ROTATED

- When the timer knob is rotated, The contacts of timer switch close.
- The contact of the secondary switch close the circuit.
- Power input is supplied to the high voltage transformer through the fuse to the primary, timer and secondary switches.
- · Turntable rotates.
- The fan motor rotates and cools the magnetron by blowing the air (coming from the intake on the baseplate).
- The air is also directed into the oven to exhaust the vapor in the oven through the upper plate.
- · The timer starts rotating.

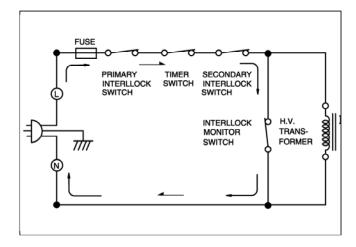


 3.2 volts AC is generated from the filament winding of the high voltage transformer. This 3.2 volts is applied to the magnetron to heat the magnetron filament through two noise-preventing choke coils.

- A high voltage of approximately 2100 volts AC is generated in the secondary of the high voltage transformer which is increased by the action of the high voltage diode and charging of the high voltage capacitor.
- The negative 4,000 Volts DC is applied to the filament of the magnetron.

WHEN THE DOOR IS OPENED DURING COOKING

- Both the primary and timer switches are cut off primary winding voltage of the high voltage transformer.
- When the door is opened, the secondary switch is opened and when the door is closed, the secondary switch is closed.
- The timer, turntable and fan motor stop.
- As the door is opened, if the contact of primary switch fails to open, the fuse opens due to the large current surge caused by the monitor switch activation, which in turn stops magnetron oscillation.



SERVICE INFORMATION

TOOLS AND MEASURING INSTRUMENTS

NECESSARY TOOLS

Tools normally used for TV servicing are sufficient. Standard tools are listed below.

- · Diagonal pliers
- · Long nose pliers
- · Phillips screwdriver
- · Flat blade screwdriver
- · Wrench (size 5mm)
- Nutdriver (size 5mm)
- Adjustable wrench
- · Soldering iron
- Solder
- · Vinyl insulation tape
- · Polishing cloth

NECESSARY MEASURING INSTRUMENTS

- TESTER (VOLTS-DC, AC, Ohmmeter)
- · Microwave survey meter
- Holaday HI-1500

HI-1501

- Narda 8100

8200

- · Inch scale
- 600 cc non conductive material beaker (glass or plastic), inside diameter: approx. 8.5 cm (3¹/₂ in.)
- Cylindrical and made of borosilicate glass vessel.

max. thickness: 3 mm

outside diameter: approx. 190mm

height: approx. 90mm

Glass thermometer: 100°C or 212°F (1 deg scale)

MICROWAVE LEAKAGE TEST

CAUTIONS

- Be sure to check microwave leakage prior to servicing the oven if the oven is operative prior to servicing.
- The service personnel should inform the manufacturer, importer, or assembler of any certified oven unit found to have a microwave emission level in excess of 5 mW/cm² and should repair any unit found to have excessive emission levels at no cost to the owner and should ascertain the cause of the excessive leakage. The service personnel should instruct the owner not to use the unit until the oven has been brought into compliance.
- If the oven operates with the door open, the service personnel should:
 - Tell the user not to operate the oven.
 - Contact the manufacturer and CDRH (Center for Devices and Radiological Health) immediately.

NOTE: Address on CDRH

Office of Compliance(HFZ-312) Center for Devices and Radiological Healthe 1390, Piccard Drive, Rockville. MD 20850

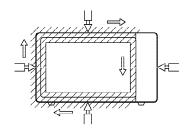
- The service personnel should check all surface and vent openings for microwave leakage.
- Check for microwave leakage after every servicing.
 The power density of the microwave radiation leakage emitted by the microwave oven should not exceed 4 mW/cm². Always start measuring of an unknown field to assure safety for operating personnel from radiation leakage.

MEASURING MICROWAVE ENERGY LEAKAGE

- Pour 275±15cc of 20±5°C(68±9°F) water in a beaker which is graduated to 600 cc, and place the beaker on the center of the turntable.
- Set the energy leakage monitor to 2,450 MHz and use it following the manufacturer's recommended test procedure to assure correct result.
- When measuring the leakage, always use the 2inch (5cm) spacer supplied with the probe.
- Operate the oven at its maximum output.
- Measure the microwave radiation using and electromagnetic radiation monitor by holding the probe perpendicular to the surface being measured

Move probe along shaded area

Probe scanning speed Less than 2.5 cm/sec (1in/sec)



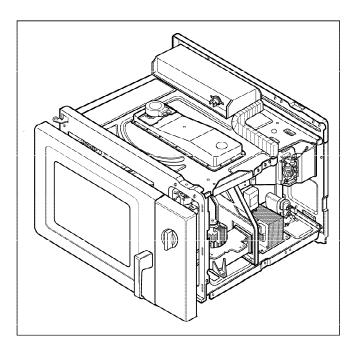
MEASUREMENT WITH OUTER CASE REMOVED

 When you replace the magnetron, measure for microwave energy leakage before the outer case is installed and after all necessary components are replaced or adjusted.

Special care should be taken in measuring the following parts. (Circled area of below Fig.)

- Around the magnetron
- The waveguide

WARNING: AVOID CONTACTING ANY HIGH VOLTAGE PARTS



MEASUREMENT WITH A FULLY ASSEMBLED OVEN

- After all components, including the outer case, are fully assembled, measure for microwave energy leakage around the door viewing window, the exhaust opening, and air inlet openings.
- Microwave energy leakage must not exceed the values prescribed below.

NOTE: Leakage with the outer case removedless than 5 mW/cm.sq. Leakage for a fully assembled oven (Before the latch switch (primary) is interrupted) with the door in a slightly opened position-less than 2 mW/cm.sq.

NOTES WHEN MEASURING

- · Do not exceed meter full scale deflection.
- The test probe must be removed no faster than 1 inch/sec (2.5 cm/sec) along the shaded area, otherwise a false reading may result.
- The test probe must be held with the grip portion of the handle.
 - A false reading may result if the operator's hand is between the handle and the probe.
- When testing near a corner of the door, keep the probe perpendicular to the surface making sure the probe horizontally along the oven surface, this may possibly cause probe damage.

RECORD KEEPING AND NOTIFICATION AFTER MEASUREMENT

- After adjustment and repair of any microwave energy interruption or microwave energy blocking device, record the measured values for future reference. Also enter the information on the service invoice.
- The microwave energy leakage should not be more than 4 mW/cm.sq. after determining that all parts are in good condition, functioning properly and genuine replacement parts which are listed in this manual have been used.
- At least once a year, have the electromagnetic energy leakage monitor checked for calibration by its manufacturer.

MEASUREMENT OF MICROWAVE POWER OUTPUT

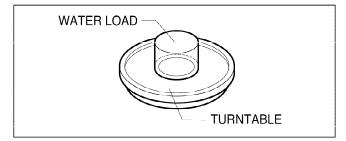
- Microwave power output measurement is made with the microwave oven supplied at its rated voltage and operated at its maximum microwave power setting with a load of (1000±5) g of potable water.
- The water is contained in a cylindrical borosilicate glass vessel having a maximum material thickness of 3 mm and an outside diameter of approximately 190mm.
- The oven and the empty vessel are at ambient temperature prior to the start of the test.
- The initial temperature (T1) of the water is (10±2)°C It
 is measured immediately before the water is added to
 the vessel. After addition of the water to the vessel,
 the load is immediately placed on the center of the
 ceramic plate which is in the lowest position and the
 microwave power switched on.
- The time T for the temperature of the water to rise by a value Δ T of $(10\pm2)^{\circ}$ K is measured, where T is the time in seconds and Δ T is the temperature rise. The initial and final water temperatures are selected so that the maximum difference between the final water temperature and the ambient temperature is 5°K.

 The microwave power output P in watts is calculated from the following formula :

$$P = \frac{4187 \times (\Delta T)}{T}$$

is measured while the microwave generator is operating at full power. Magnetron filament heat-up time is not included. (about 3 sec)

- The water is stirred to equalize temperature throughout the vessel, prior to measuring the final water temperature.
- Stirring devices and measuring instruments are selected in order to minimize addition or removal of heat.



DISASSEMBLY AND ADJUSTMENT

A. OUTER CASE REMOVAL

- 1) Disconnect the power supply cord from the outlet.
- Remove the screws from the rear of the case.
 The outer case must be moved backward to be lifted off.

B. POWER SUPPLY CORD

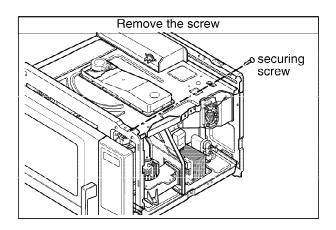
- 1) Remove the outer case.
- 2) Disconnect two terminals, and remove one screw of the ground terminal.

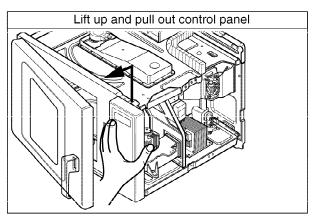
C. CONTROL PANEL ASSEMBLY

- 1) Open the door.
- Remove the screw for securing the control panel.
- 3) Disconnect the leadwire from the timer motor.
- 4) Lift up and pull out control panel assembly carefully from the cavity.

CAUTION: DISCHARGE THE HIGH VOLTAGE CAPACITOR BEFORE SERVICING

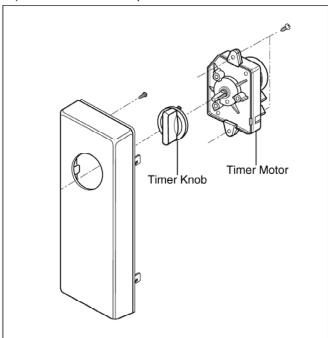
(refer to page 2-1)





D. TIMER MOTOR REMOVAL

- Remove the control panel assembly from the cavity. (Refer to control panel assembly removal on previous page.)
- 2) Remove screws which hold the timer motor to the control panel.
- 3) Removed the timer knob.
- 4) Remove the door open button.



E. DOOR MAIN ASSEMBLY REMOVAL

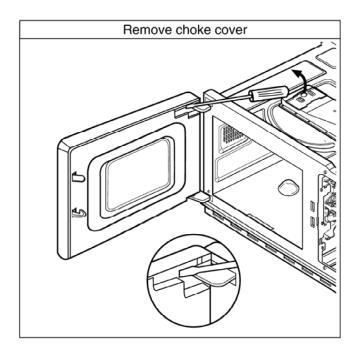
- 1) Open the door.
- 2) Remove the choke cover cap very carefully with a flat-blade screwdriver.

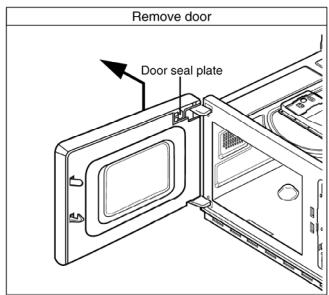
CAUTION: Be careful not to damage door seal plate by screwdriver.

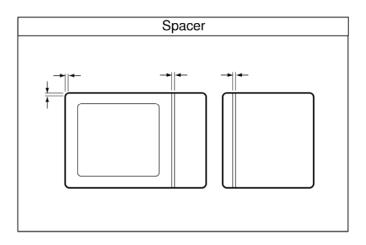
3) Lift up and push the door.

NOTE:

- After replacing the door, be sure to check that the primary switch, monitor switch, and secondary switch operate normally.
- After replacing the door, check for microwave energy leakage with a survey meter. Microwave energy must be below the limit of 4 mW/cm. (with a 275 ml water load)
- 3. When mounting the door assembly to the oven assembly, be sure to adjust the door assembly parallel to the chassis. Also adjust so the door has no play between the inner door surface and oven frame assembly. If the door assembly is not mounted properly, microwaves may leak from the clearance between the door and the oven.







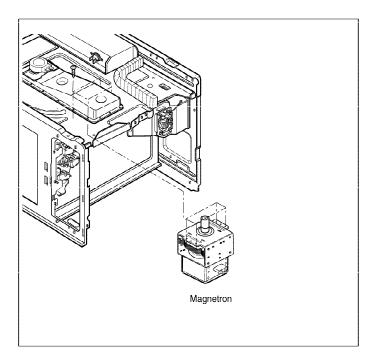
F. MAGNETRON REMOVAL

- 1) Disconnect the leadwire from the magnetron.
- 2) Carefully remove the mounting screws holding the magnetron and the waveguide.
- 3) Remove the magnetron ASS'Y until the tube is clear from the waveguide.

NOTE:

- When removing the magnetron, make sure its dome does not hit any adjacent parts, or it may be damaged.
- 2. When replacing the magnetron, be sure to install the magnetron gasket in the correct position and be sure that the gasket is in good condition.
- 3. After replacing the magnetron, check for microwave leakage with a survey meter around the Microwave energy must be below the limit of 5 mW/cm². (With a 275 ml. water load).
 Make sure that gasket is rigidly attached to the magnetron. To prevent microwave leakage, tighten the mounting screws properly, making sure there is

no gap between the waveguide and the magnetron.

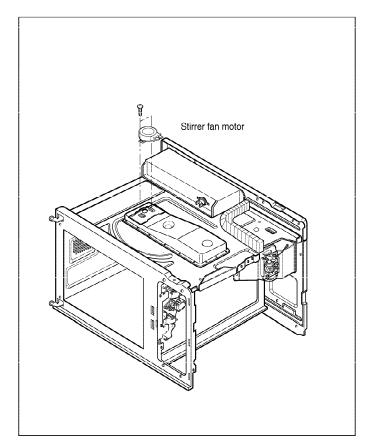


G. REMOVING THE STIRRER FAN MOTOR

- 1) Disconnect the leadwire from the stirrer fan motor terminals.
- 2) Remove the screw securing the stirrer fan motor to the oven cavity ASS'Y
- 3) After repairing the motor, replace the removed leadwire.

NOTE:

- Remove the wire lead from the stirrer fan motor VERY CAREFULLY.
- 2. Be sure to grasp the connector, not the wires, when removing.



H. HIGH VOLTAGE TRANSFORMER REMOVAL

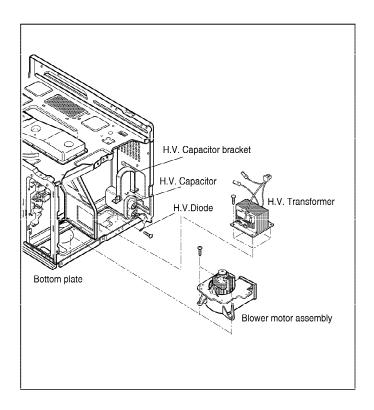
- 1) Discharge the high voltage capacitor.
- 2) Disconnect the leadwire from magnetron, high voltage transformer, and capacitor.
- 3) Remove the screw holding the high voltage transformer to the bottom plate.

I. BLOWER MOTOR ASSEMBLY REMOVAL

- 1) Disconnect the leadwire from blower motor.
- 2) Remove the two screws holding the blower motor to the bottom plate.

J. HIGH VOLTAGE CAPACITOR AND DIODE REMOVAL

- 1) Discharge the high voltage capacitor.
- 2) Disconnect the leadwire from high voltage capacitor.
- Remove the screw holding the high voltage diode earth screw.
- 4) Remove the screw holding the high voltage capacitor bracket.



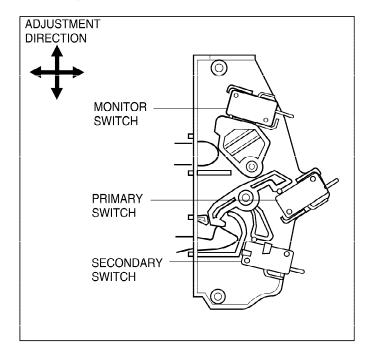
K. INTERLOCK SYSTEM

1) INTERLOCK MECHANISM

The door lock mechanism is a device which has been specially designed to eliminate completely microwave activity when the door is opened during cooking and thus to prevent the danger resulting from the microwave leakage.

- 2) MOUNTING OF THE PRIMARY/MONITOR/ SECONDARY SWITCHES TO THE LATCH BOARD
- 3) INSTALLATION AND ADJUSTMENT OF THE LATCH BOARD TO THE OVEN ASSEMBLY
- Mount the latch b oard to the oven assembly.
- Adjust the latch board in the arrow direction so that oven door will not have any play in it when the door is closed.
- Tighten the mounting screw.
- Check for play in the door by pushing the door release button. Door movement should be less than 0.5 mm. (1/64 inch)

Don't push the door release button while making this adjustment. Make sure that the latch moves smoothly after adjustment is completed and that the screws are tight. Make sure the primary, monitor, and secondary switches operate properly by following the continuity test procedure.



INTERLOCK CONTINUITY TEST

WARNING: FOR CONTINUED PROTECTION AGAINST EXCESSIVE RADIATION EMISSION, REPLACE ONLY WITH IDENTICAL REPLACEMENT PARTS.

TYPE NO. SZM-V 21-FC-93 FOR PRIMARY SWITCH

TYPE NO. SZM-V 16-FA-62 OR VP-532A-OF FOR MONITOR SWITCH

TYPE NO. SZM-V 16-FA-63 OR VP-533A-OF FOR SECONDARY SWITCH

A. PRIMARY INTERLOCK SWITCH TEST

When the door release button is depressed slowly with the door closed, an audible **click** should be heard at the same time or successively at intervals. When the button is released slowly, the latches should activate the switches with an audible **click**.

If the latches do not activate the switches when the door is closed, the switches should be a adjusted in accordance with the adjustment procedure. Disconnect the wire leads from the primary switch. Connect the ohmmeter leads to the common (COM) and normally open (NO) terminal of the switch. The meter should indicate an open circuit in the door open condition. When the door is closed, the meter should indicate a closed circuit.

When the primary switch operation is abnormal, make the necessary adjustment or replace the switch using only the same type of switch.

B. SECONDARY INTERLOCK SWITCH TEST

Disconnect the wire leads from the secondary switch.

Connect the ohmmeter leads to the common (COM) and normally open (NO) terminals of the switch. The meter should indicate an open circuit with the door open. When the door is closed, meter should indicate a closed circuit. When the secondary switch operation is abnormal, make the necessary adjustment or replace the switch using only the same type of switch.

C. MONITOR SWITCH TEST

Disconnect the wire leads from the monitor switch. Connect the ohmmeter leads to the common (COM) and normally closed (NC) terminals of the switch. The meter should indicate a closed circuit with the door open. When the door is closed, meter should indicate an open circuit. When the monitor switch operation is abnormal, replace it with the same type of switch.

NOTE: After repairing the door or the interlock system, it is necessary to do this continuity test before operating the oven.

COMPONENTS		TEST PROCEDURE	RESU	LTS
SWITCHES (Wire leads removed)	Check for continuity of the switch with an Ohm-meter		Door open	Door closed
	Primary Switch	NO N	®	®°
	Monitor Switch	NC COM		*C
	Secondary Switch	COM NO	°°C°	°° °°
		r checking for the continuity of switchenected correctly.	es, make sure that	are

COMPONENT TEST PROCEDURE

CAUTIONS

- 1. DISCONNECT THE POWER SUPPLY CORD FROM THE OUTLET WHENEVER REMOVING THE OUTER CASE FROM THE UNIT. PROCEED WITH THE TEST ONLY AFTER DISCHARGING THE HIGH VOLTAGE CAPACITOR AND REMOVING THE WIRE LEADS FROM THE PRIMARY WINDING OF THE HIGH VOLTAGE TRANSFORMER. (SEE PAGE 2-1)
- 2. ALL OPERATIONAL CHECKS WITH MICROWAVE ENERGY MUST BE DONE WITH A LOAD (1 LITER OF WATER IN CONTAINER) IN THE OVEN.

COMPONENTS	TEST PROCEDURE	RESULTS
HIGH VOLTAGE TRANSFORMER (Wire leads removed)	SECONDARY TERMINAL 1. Measure the resistance. (Ohm-meter scale: Rx1 and Rx100) • Primary winding • Secondary winding • Filament winding 2. Measure the resistance. (Ohm-meter scale: Rx1000) • Primary winding to ground • Filament winding to ground	Approx.: 0.3 ~ 0.5 ohm Approx.: 100 ~ 120 ohm Less than: 1 ohm Normal: Infinite Normal: Infinite
MAGNETRON (Wire leads removed)	1. Measure the resistance. (Ohm-meter scale: Rx1) • Filament terminal 2. Measure the resistance. (Ohm-meter scale: Rx1000) • Filament to chassis	Normal: Less than 1 ohm Normal: Infinite

COMPONENTS	TEST PROCEDURE	RESULTS
	Antenna Gasket Chassis Filament	
	NOTE: When testing the magnetron, be sure in the correct position and be sure th	
HIGH VOLTAGE CAPACITOR	Measure the resistance. (Ohm-meter scale: Rx1000) • Terminal to terminal.	Normal: Momentarily indicates several ohms, and then gradually returns to infinite.
	Measure the resistance. (Ohm-meter scale: Rx1000) • Terminal to case.	Normal: Infinite.
HIGH VOLTAGE DIODE	Measure the continuity (Forward). (Ohm-meter scale: Rx10000)	Normal: Continuity. Abnormal: Infinite.
NOTE: Some inexpensive meters may indicate infinite resistance in both direction.		
	Measure the continuity (Reverse). (Ohm-meter scale: Rx10000)	Normal: Infinite. Abnormal: Continuity.

COMPONENTS	TEST PROCEDURE	RESULTS
BLOWER MOTOR (Wire leads removed)	Measure the resistance. (Ohm-meter scale: R x 100)	Normal: Approx. 14~21 ohm Abnormal: Infinite or several K-ohm.
STIRRER MOTOR (Wire leads removed)	Measure the resistance. (Ohm-meter scale: R x 1000)	Normal: Approx. 3~3.5 kohm Abnormal: Infinite or several K-ohm.
TIMER MOTOR (Wire leads removed)	Measure the resistance. (Ohm-meter scale: R x 1000) * 3 to 4	Normal: Approx. 11~11.7 kohm Abnormal: Infinite or several K-ohm.

NOTE: • A MICROWAVE LEAKAGE TEST MUST ALWAYS BE PERFORMED WHEN THE UNIT IS SERVICED FOR ANY REASON.

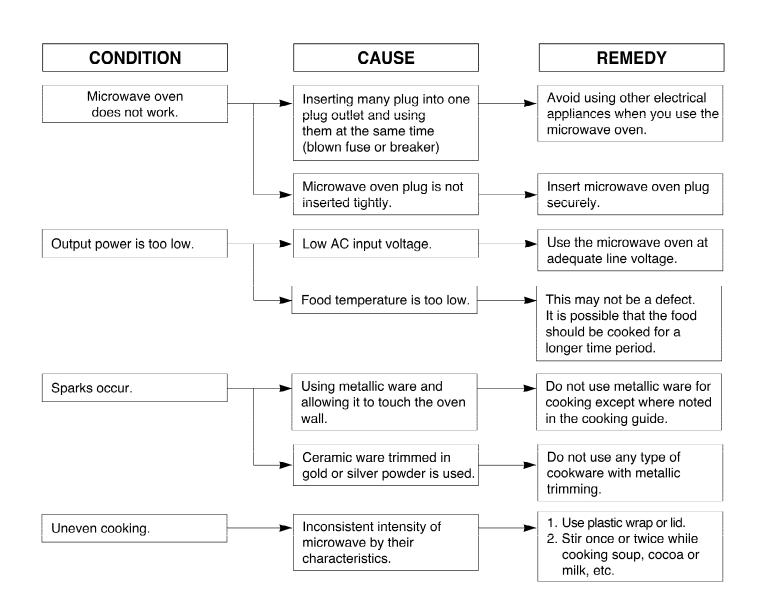
- MAKE SURE THE WIRE LEADS ARE IN THE CORRECT POSITION.
- WHEN REMOVING THE WIRE LEADS FROM THE PARTS, BE SURE TO GRASP THE CONNECTOR, NOT THE WIRES.

TROUBLE SHOOTING

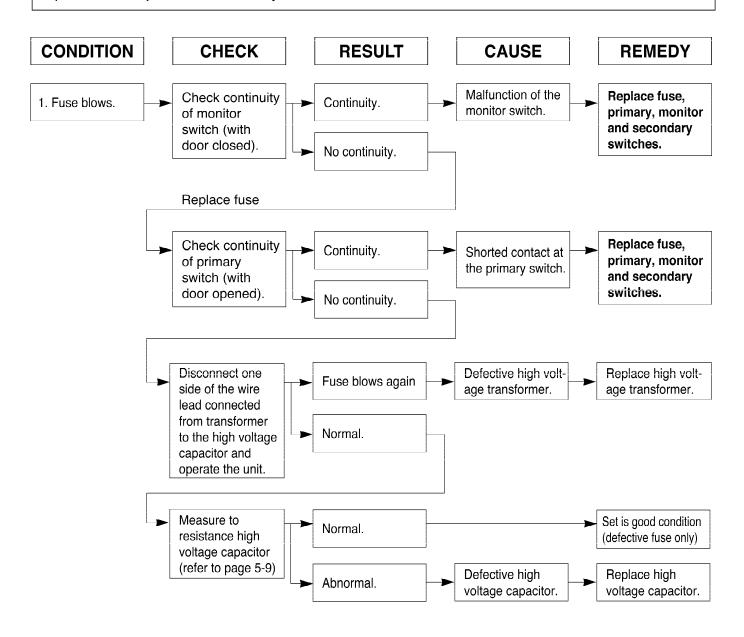
WHEN YOU GET A COMPLAINT FROM YOUR CUSTOMER, EVALUATE THE COMPLAINT CAREFULLY. IF THE FOLLOWING SYMPTOMS APPLY, PLEASE INSTRUCT THE CUSTOMER IN THE PROPER USE OF THE MICROWAVE OVEN. THIS CAN ELIMINATE AN UNNECESSARY SERVICE CALL.

CAUTIONS

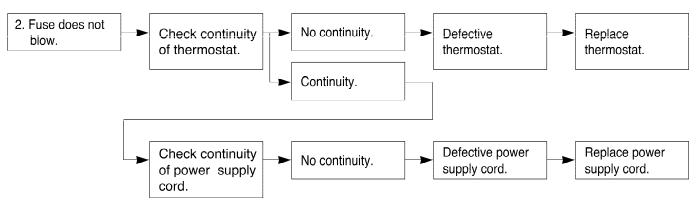
- 1. Check grounding before checking for trouble.
- 2. Be careful of the high voltage circuit.
- 3. Discharge the high voltage capacitor. (See page 2-1)
- 4. When checking the continuity of the switches or of the high voltage transformer, disconnect one lead wire from these parts and then check continuity with the AC plug removed. To do otherwise may result in a false reading or damage to your meter.



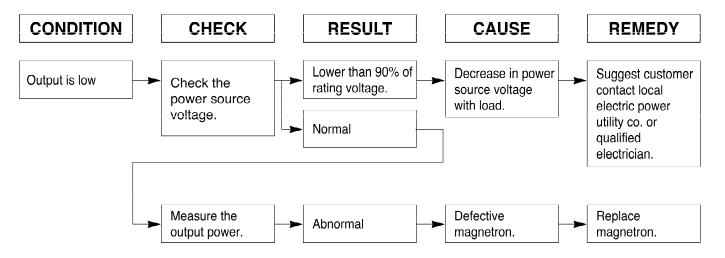
(TROUBLE 1) Oven does not operate at all



NOTE: All these switches must be replaced at the same time. Refer to page 5-8



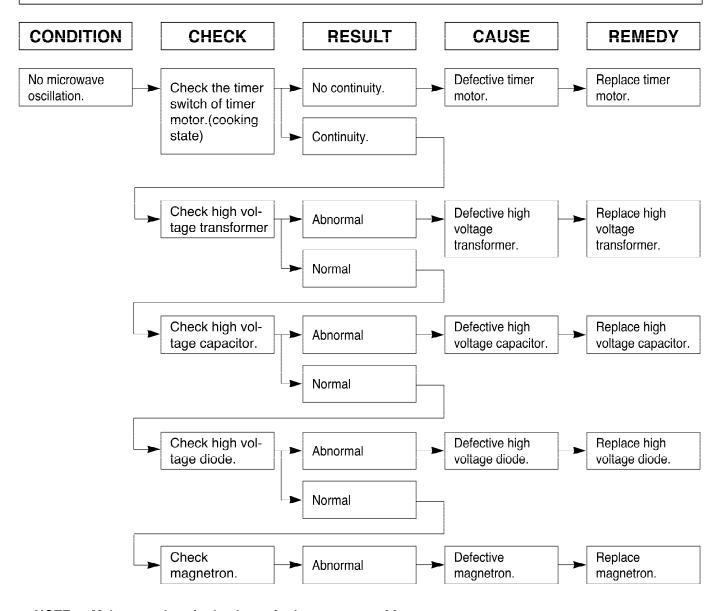
(TROUBLE 2) Oven seems to be operating but little heat is produced in oven load.



NOTE: Simple test of power output-conducted by heating one liter water for one min. if available.

Minimum 8.5°C temperature rise is normal condition.

(TROUBLE 3) No microwave oscillation even though oven lamp and fan motor run.

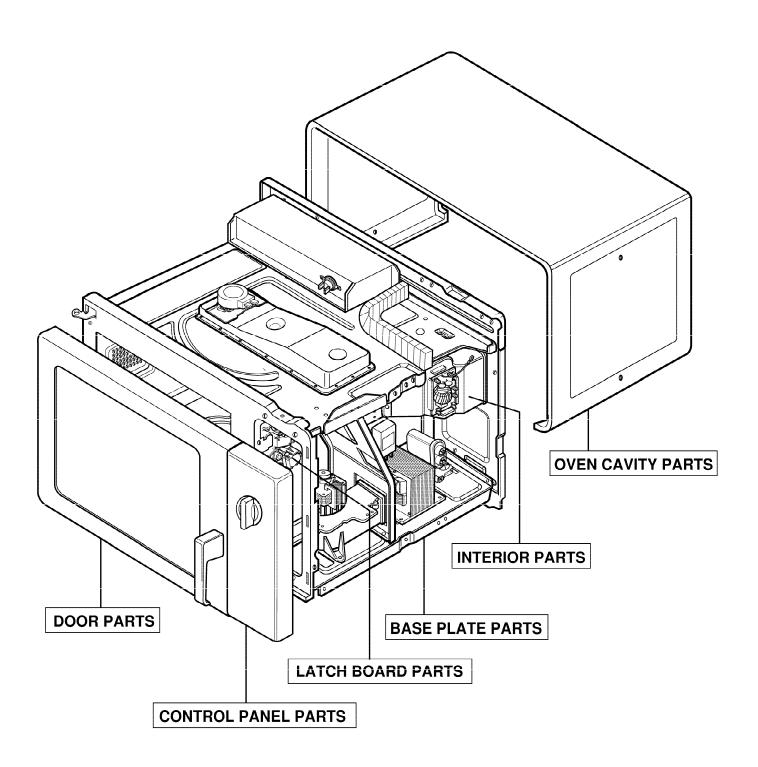


NOTE: • Make sure the wire leads are in the correct position.

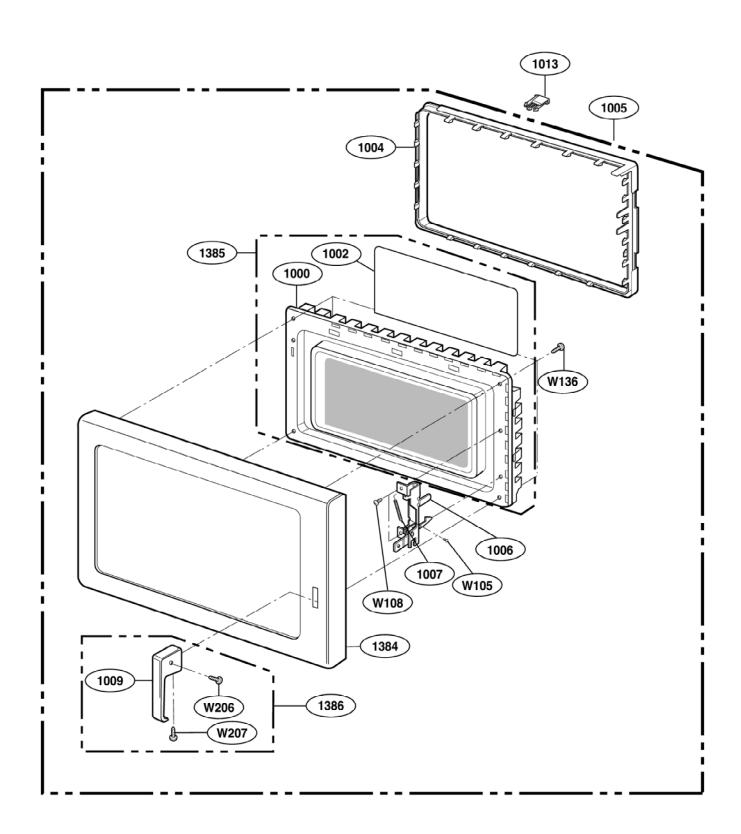
- When removing the wire leads from the parts, be sure to grasp the connector, not the wires.
- When removing the magnetron, be sure to install the magnetron gasket in the correct position and in good condition.

EXPLODED VIEW

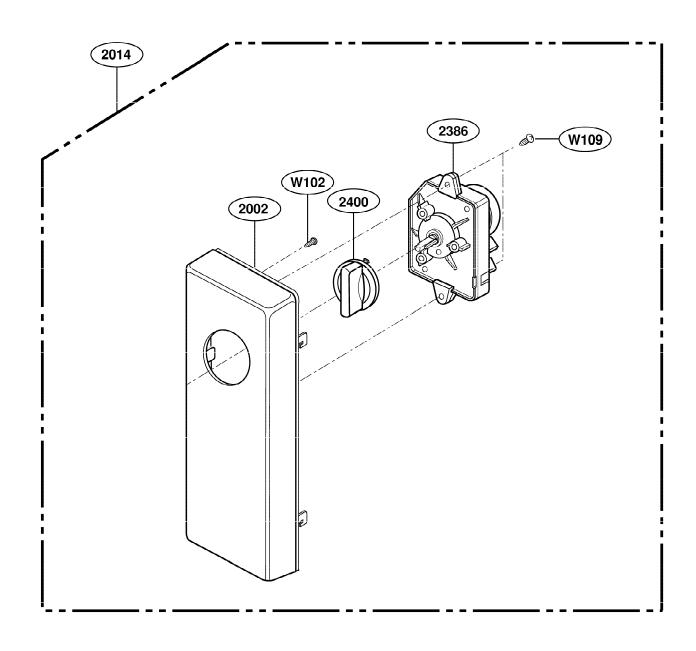
INTRODUCTION



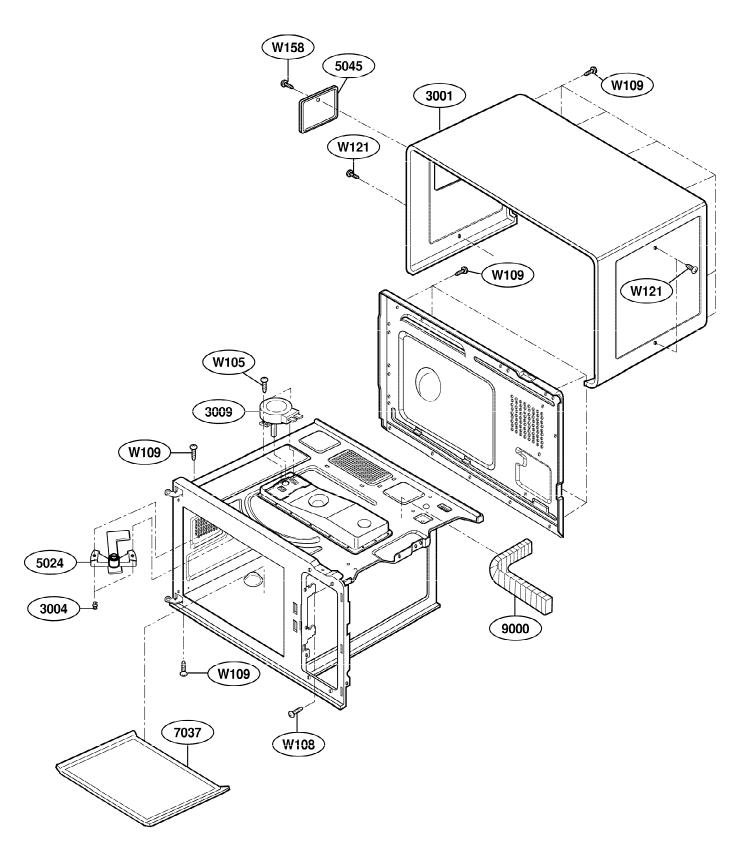
DOOR PARTS



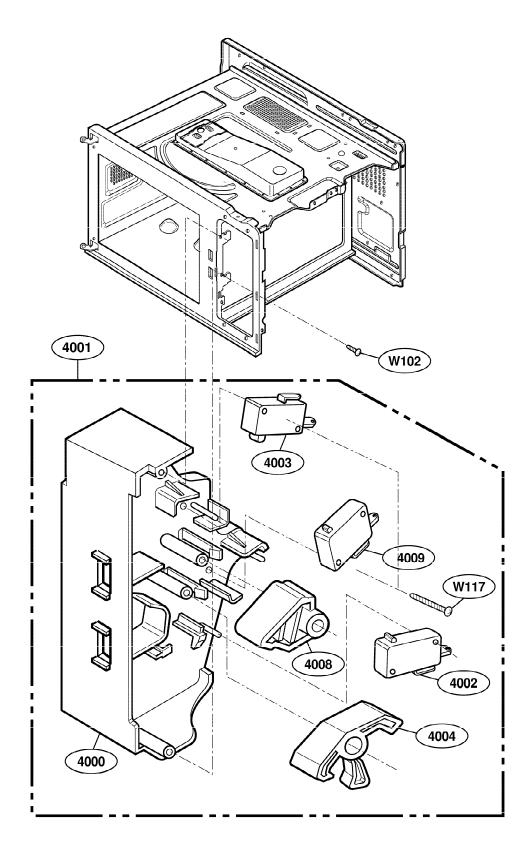
CONTROL PANEL PARTS



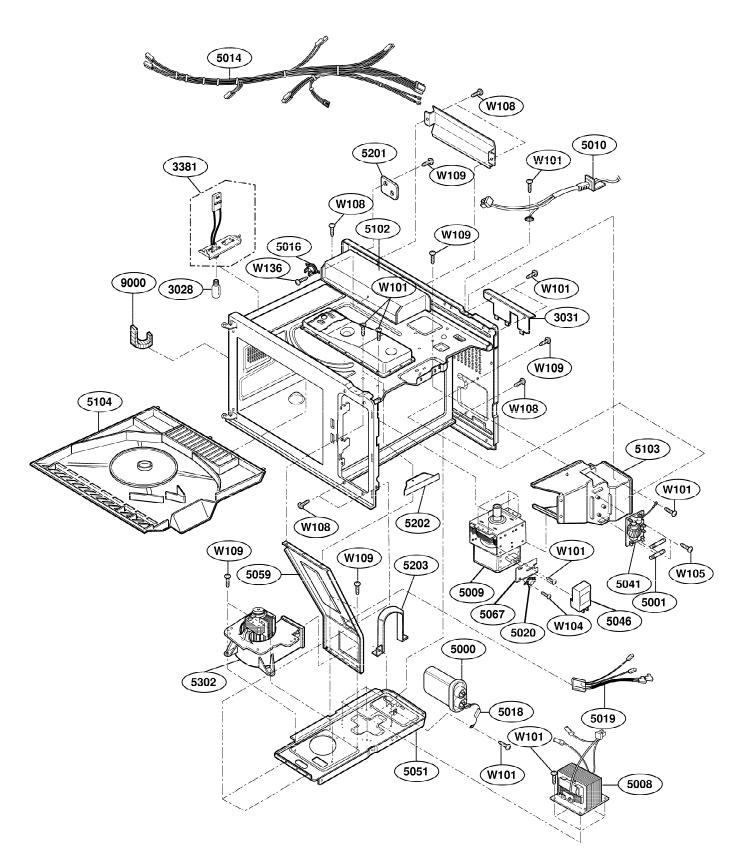
OVEN CAVITY PARTS



LATCH BOARD PARTS



INTERIOR PARTS



BASE PLATE PARTS

