



SEARS

MODEL 721.80032
721.80039
721.80033

DIVISION 22

BASIC FIELD MANUAL
FOR
MICROWAVE OVEN

MODEL 721.80032700
721.80039700
721.80033700

June, 2007

CAUTION

WARNING TO SERVICE TECHNICIANS

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.**
- Proper operation of the microwave ovens requires that the magnetron be assembled to the wave guide 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.
 - Routine service safety procedures should be exercised at all times.
 - Untrained personnel should not attempt service without a thorough review of the test procedures and safety information contained in this manual.

FOREWORD

Read this Manual carefully. Failure to adhere to or observe the information in this Manual may result in exposing yourself to the Microwave Energy normally contained within the oven cavity.

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SPECIFICATIONS

Rated Power Consumption	1500W maximum (Microwave oven+Cook top lamps+Ventilation fan)
Microwave Output	1000W (IEC60705)
Frequency	2450 MHz \pm 50 MHz
Power Supply	120 VAC, 60 Hz
Rated Current	14 Amp. (Microwave oven+Cook top lamps+Ventilation fan)
Magnetron Cooling	Forced Air Cooling
Rectification	Rectification Voltage Double Half-Wave
Door Sealing	Choke System
Safety Devices	Oven Thermostat: Open at 90 °C \pm 5 °C Close at 0 °C \pm 5 °C
	Fuse(20A)
	Primary Interlock Switch
	Secondary Interlock Switch
	Interlock Monitor Switch
Magnetron	2M214 - 161GP
Cook top Lamp	125 V, 30 W
Cavity Lamp	125 V, 30 W or 40 W
Timer	Digital, up to 99 min. 99 sec. (in each cooking stage)
Tray	Tempered Safety Glass
Overall Dimensions	29 ^{15/16} "(W)x16 ^{7/16} "(H)x15 ^{11/16} "(D)
Oven Cavity Size	21 ^{9/16} "(W)x9 ^{1/4} "(H)x14 ^{1/8} "(D)
Effective Capacity of Oven Cavity	1.6 Cu.ft.
Accessories	Owner's Manual & Cooking Guide, Installation Manual, Exhaust Adapter, Exhaust Damper, Mounting Kit and Filter, Glass Tray, Rotating Ring Assembly.

SWITCH CHART

SWITCH MODE	PRIMARY INTERLOCK SWITCH	SECONDARY INTERLOCK SWITCH	INTERLOCK MONITOR SWITCH
CONDITIONS	COM NO	COM NO	COM NC
DOOR OPEN	OPEN	OPEN	CLOSE
DOOR CLOSED	CLOSE	CLOSE	OPEN

NOTE: Use the above switch chart with circuit diagram on page 5-1.

CAUTIONS

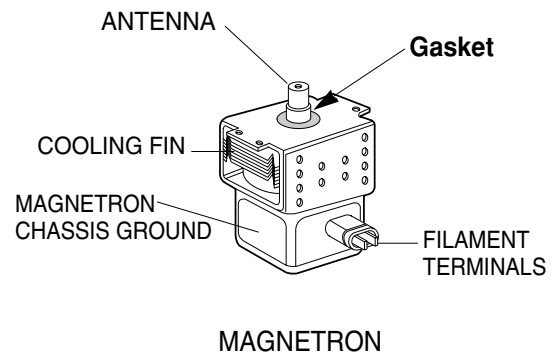
Unlike other appliances, the microwave oven is high-voltage and high-current equipment. Though it is free from danger in ordinary use, extreme care should be taken during repair.

- 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.
- 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.**



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

INSTALLATIONS

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

PRECAUTIONS ON INSTALLATION

- A. Plug the power supply cord into a 120V AC, 60Hz, single-phase power source with a capacity of at least 20 amperes.
- B. Avoid placing the unit in a location where there is direct heat or splashing water.
- C. Install the unit on the mounting plate firmly.
- D. Place the unit as far away as possible from TV, radio, etc. to prevent interference.

GROUNDING INSTRUCTIONS

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

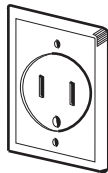
In the event of an electrical short circuit, grounding reduces the risk of electrical shock.

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

CAUTION

This unit is equipped with a 3-prong plug for your safety. If the wall outlet is a grounded 3-hole type, the unit will be grounded automatically.

Plug with Ground Prong



Properly Polarized and Grounded Outlet

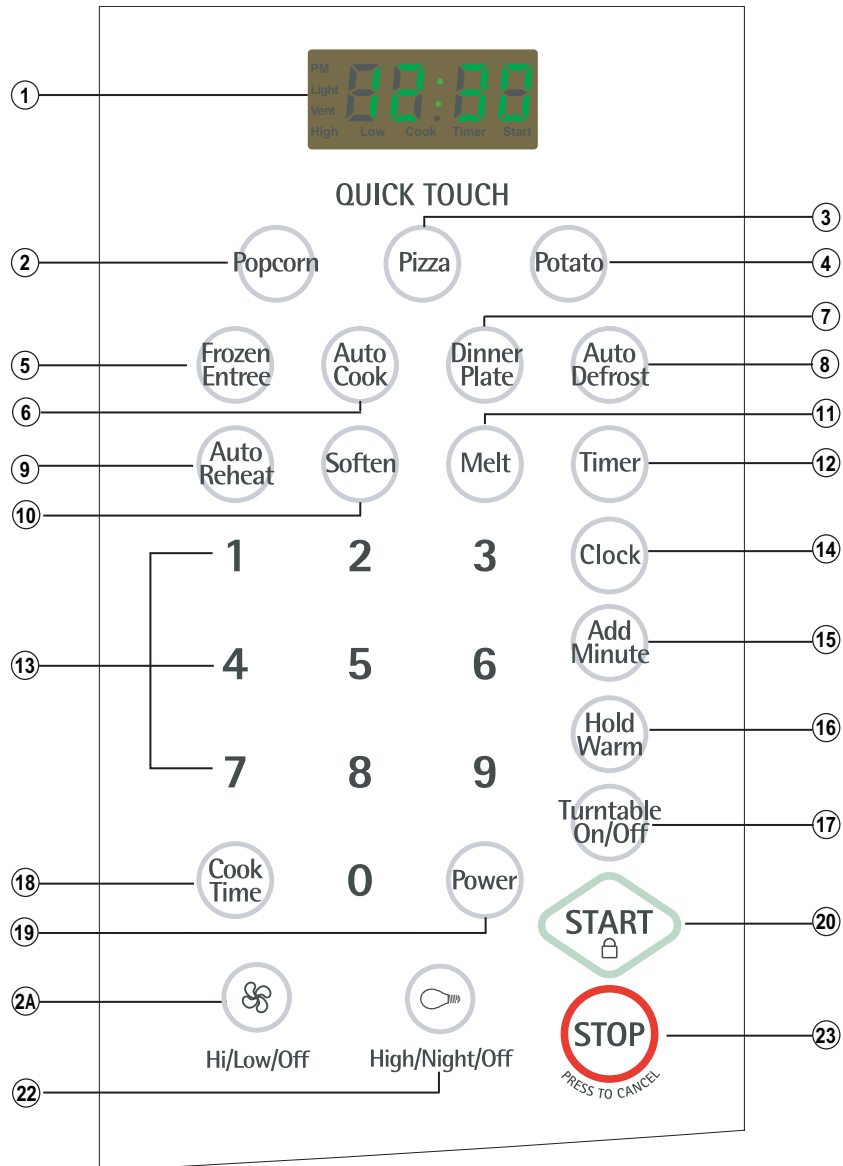
WARNING

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.

OPERATING INSTRUCTIONS

CONTROL PANEL



CONTROL PANEL INSTRUCTIONS

- 1. Display:** The display includes a clock and indicators to tell you time of day, cooking time settings, cook powers, quantities, weights and cooking functions selected.
- 2. POPCORN:** Touch this pad to pop one of 2 bag sizes of popcorn without entering a cook time or power.
- 3. PIZZA:** Touch this pad to reheat one or several slices of pizza without entering a cook time or power.
- 4. POTATO:** Touch this pad to cook up to 4 potatoes without entering a cook time or power.
- 5. FROZEN ENTREE:** Touch this pad to cook a 10 -to 20 -ounce (284 to 567 g) frozen entree without entering a cook time or power.
- 6. AUTO COOK:** Touch this pad to cook microwavable foods without entering a cook time or power.
- 7. DINNER PLATE:** Touch this pad to cook without entering a cook time or power.
- 8. AUTO DEFROST:** Touch this pad followed by number pads to thaw frozen meat by weight.
- 9. AUTO REHEAT:** Touch this pad to reheat microwavable foods without entering a cook time or power.
- 10. SOFTEN:** Touch this pad to soften butter, ice cream, cream cheese, frozen juice.
- 11. MELT:** Touch this pad to melt butter or margarine, chocolate, cheese, or marshmallows.
- 12. TIMER:** Touch this pad to set the kitchen timer.
- 13. Number Pads:** Touch number pads to enter cooking times, cook powers, quantities, weights, or food categories.
- 14. CLOCK:** Touch this pad to enter the correct time of day.
- 15. ADD MINUTE:** Touch this pad to cook for 1 minute at 100% cook power, or to add extra minutes at the set cook power to your cooking cycle.
- 16. HOLD WARM:** Touch this pad to keep hot, cooked foods warm in your microwave oven for up to 99 minutes 99 seconds.
- 17. TURNTABLE ON/OFF:** Touch this pad to turn off the turntable. "OFF" will appear in the display.
- 18. COOK TIME:** Touch this pad followed by Number Pads to set a cooking time.
- 19. POWER:** Touch this pad after the cook time has been set, followed by a Number Pad to set the amount of microwave energy released to cook the food. The higher the number, the higher the microwave power or "cooking speed."
- 20. START:** Touch this pad to start a function. If you open the door after the oven begins to cook, retouch START.
- 21. Fan () Hi/Low/Off:** Touch this pad to turn the fan on high, low or off.
- 22. Light ():** Touch this pad to turn the light on high, night (low) or off.
- 23. STOP:** Touch this pad to erase an incorrect command, cancel a program during cooking, or to clear the Display.

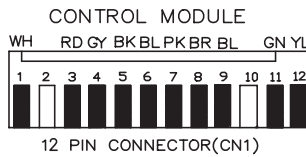
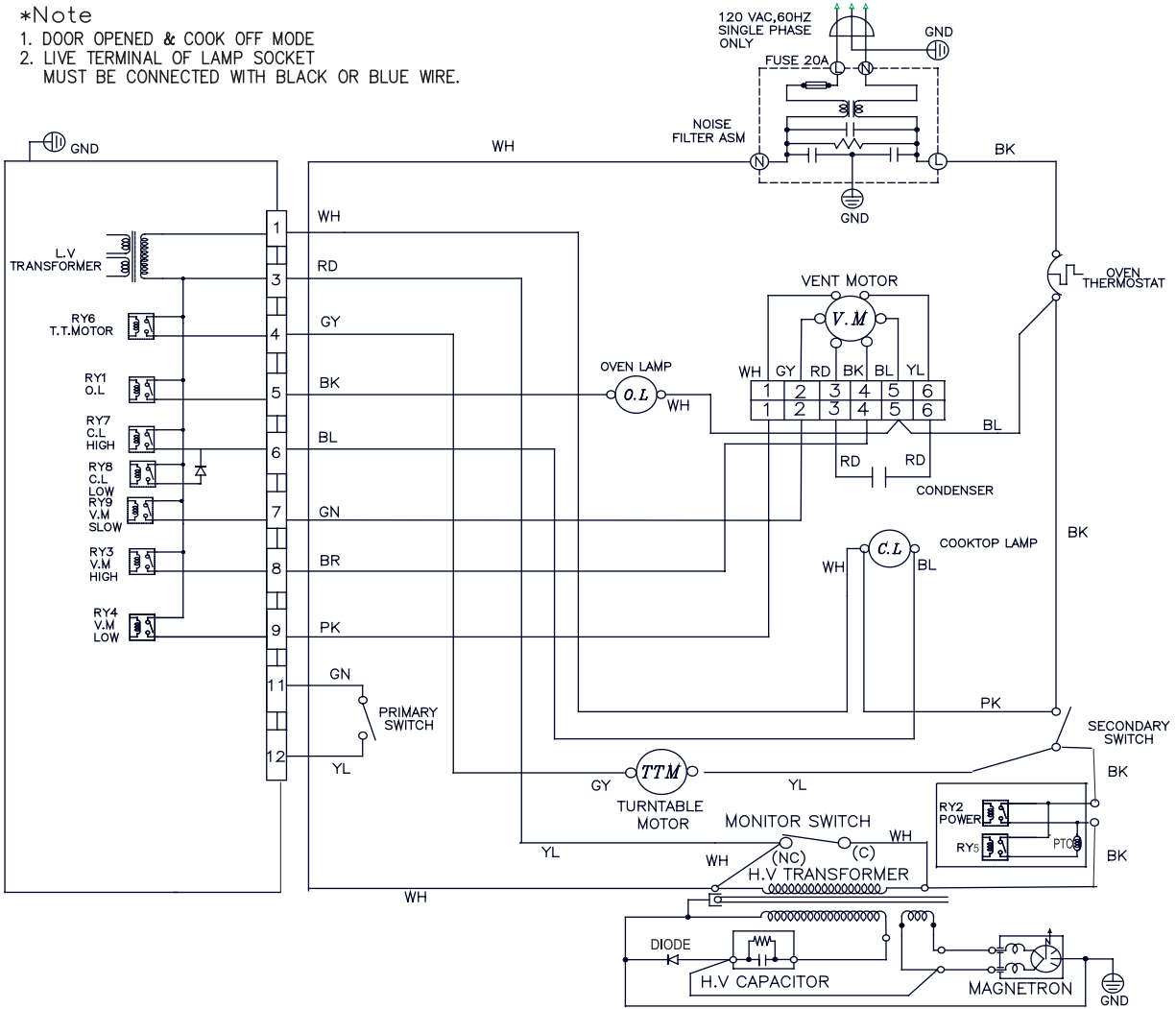
NOTE: If you try to enter incorrect instructions, you will not hear any tones. Touch STOP/Clear and re-enter the instructions. off the turntable. "OFF" will appear in the display.

OVERALL CIRCUIT DIAGRAM

SCHEMATIC DIAGRAM

***Note**

1. DOOR OPENED & COOK OFF MODE
2. LIVE TERMINAL OF LAMP SOCKET MUST BE CONNECTED WITH BLACK OR BLUE WIRE.

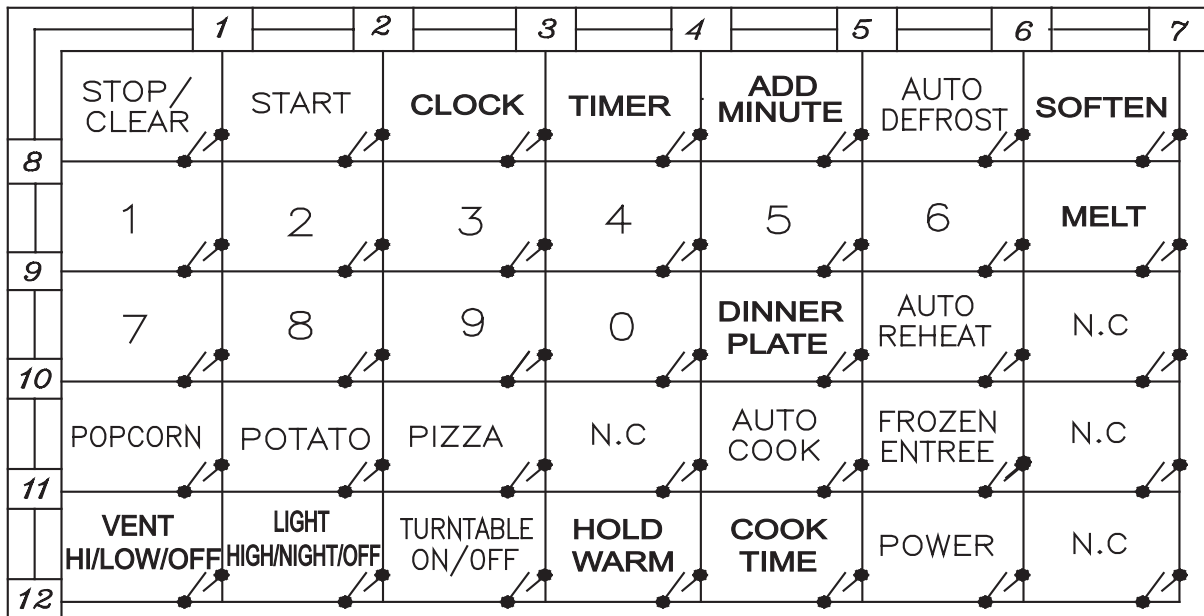


WIRE COLORS

SYMBOL	COLOR
WH	WHITE
BK	BLACK
RD	RED
YL	YELLOW
PK	PINK
BL	BLUE
BR	BROWN
GN	GREEN
GY	GREY

MATRIX CIRCUIT FOR TOUCH KEY BOARD

KEY MATRIX



GENERAL INFORMATION FOR SERVICE

GENERAL PRECAUTIONS IN USE

- A. Never operate the unit when it is empty.
Operating the oven with no load may shorten the life of the magnetron. Whenever cooking dry foods (dried fish, bread, etc.) or a small amount of food, be sure to put a glass of water into the cooking compartment. The glass turntable may become hot after operating, be careful when touching it.
- B. Aluminum foil should be avoided because it will disrupt cooking and may cause arcing. However, small pieces may be used to cover some parts of food to slow the cooking. Any aluminum foil used should never be closer than 2.5 cm to any side wall of the oven.

TRIAL OPERATION

After installation, the following sequences and results should be checked carefully.

- A. Put a container filled with water (about 1 liter) into the oven, and close the door tightly.
- B. Set cooking time for 10 minutes by touching "1" and then "0" three times. "1, 0, 0, 0" appears in the display window.
- C. Touch the START key.
Make sure the cavity light comes on. The unit will begin cooking and the display window will show the time counting down by seconds.
- D. After about 5 minutes, make sure the primary interlock switch, the secondary interlock switch and the interlock monitor switch operate properly by opening and closing the door several times. Touch the START key each time the door is closed.
- E. Continue operating the unit. Two short and a long beep sound signal is heard when the time is up.
The unit will shut off automatically.
- F. Confirm the water is hot.
- G. Finally, measure the output power according to "POWER OUTPUT MEASUREMENT" on page 7-3.

FEATURES AND SPECIFICATIONS FEATURES

- A. The safety systems incorporated in this model are:
 - (1) Primary interlock switch
 - (2) Secondary interlock switch
 - (3) Interlock monitor switch
 - (4) Choke system
 - (5) Oven cavity thermostat
(Note This thermostat located on the oven cavity will open and stop the unit from operation only if a high temperature is reached, such as, a fire created by overcooking food.)
- B. Any one of 10 power output levels ranging 0W to 1000W can be selected by the touch control and electronic computer system.
- C. Cooking time can be displayed on the digital readout.
- D. Three different cooking stages (Include Defrost) can be changes from one cooking stage to another. This is made possible with the memory function of the microprocessor.

SERVICE INFORMATION

PRECAUTIONS AND REPAIR SERVICE TIPS

PRELIMINARY

A. SINCE NEARLY 4000 VOLTS EXISTS IN SOME CIRCUITS OF THIS UNIT REPAIRS SHOULD BE CARRIED OUT WITH GREAT CARE.

The filament leads of magnetron carry High Voltage with respect to ground. Extreme caution must be exercised. Never plug the unit into a power source to determine which component is defective in high voltage section.

B. TO AVOID POSSIBLE EXPOSURE TO MICROWAVE ENERGY LEAKAGE, THE FOLLOWING PRECAUTIONS MUST BE TAKEN BEFORE SERVICING.

- (1) Before the power is applied:
 - (a) Make sure the primary interlock switch, the secondary interlock switch and the interlock monitor switch operate properly by opening and closing the door several by opening and closing the door several times.
 - (b) Make sure the perforated screen and the dielectric choke of the door are correctly and firmly mounted.
- (2) After power is applied:
 - (a) Make sure the interlock switch mechanism is operating properly by opening and closing the door.
 - (b) Check microwave energy leakage must be below the limit of 5 mW/cm^2 .
(All service adjustments should be made for minimum microwave energy leakage readings).

(3) Do not operate the unit until it is completely repaired, if any of the following conditions exist. The unit must not be operated.

- (a) The door does not close firmly.
- (b) The hinge is broken.
- (c) The door seal is damaged.
- (d) The door is bent or warped, or there is any other visible damage on the unit that may cause microwave energy leakage.

NOTE: Always keep the seal clean.

- (e) Make sure that there are no defective parts in the interlock mechanism.
- (f) Make sure that there are no defective parts in the microwave generating and transmission assembly (especially waveguide).

(4) The following items should be checked after the unit is repaired:

- (a) The interlock monitor switch is connected correctly and firmly.
- (b) The magnetron gasket is properly positioned and mounted.
- (c) The waveguide and the oven cavity are intact. (no microwave energy leakage)
- (d) The door can be properly closed and the safety switches work properly.
- (e) The unit must stop when the door is opened or the time is up.

The unit must not be operated with any of the above components removed or by-passed.

MICROWAVE LEAKAGE TEST

CAUTIONS

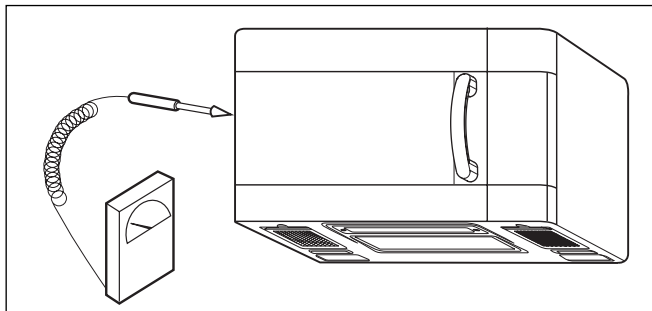
- Be sure to check microwave leakage prior to servicing the oven if the oven is operative prior to servicing.
- The service personnel should inform the manufacture importer, or assembler of any certified oven unit found to have a microwave emission level in excess of 5 mW/cm² and should repair any unit 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 Health
1390 Piccard Drive Rockville, Maryland 20850

- The service personnel should check all surface and vent openings for microwave emission testing.
- Check for microwave energy leakage after every servicing. The power density of the microwave radiation leakage emitted by the microwave oven should not exceed 1mW/cm².sq. And always start measuring of an unknown field to assure safety for operating personnel from radiation leakage.

NOTE: The standard is 5mW/cm².sq. while in the customer's home. 1mW/cm².sq. stated here is manufacturer's own voluntary standard for units in customer's home.

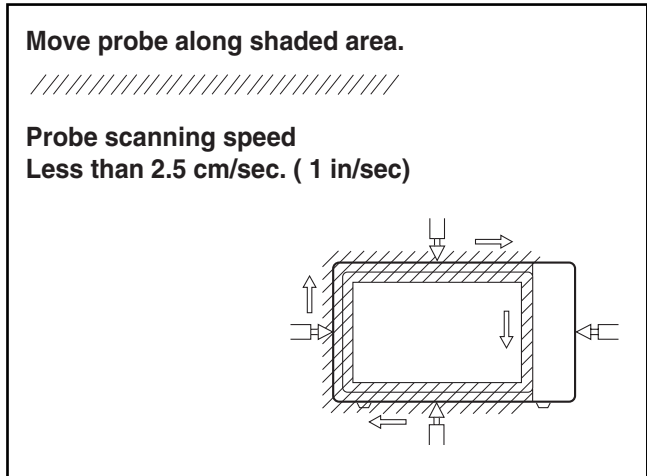


EQUIPMENT-

- TESTER ((VOLTS-DC, AC, Ohmmeter)
- Microwave survey meter
 - Holaday HI-1500 HI-1501
 - Narda 8100 8200
- 600 cc non conductive material beaker (glass or plastic), inside diameter:approx.8.5 cm (3 1/2 in.)
- Glass thermometer: 100 °C or 212 °F (1 deg scale)

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 oven.
- 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 2-inch (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.



MEASUREMENT WITH THE OUTER CASE REMOVED

- (1) 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.
 - Around the magnetron
 - The waveguide

WARNING: AVOID CONTACTING ANY HIGH VOLTAGE PARTS.

MEASUREMENT WITH A FULLY ASSEMBLED OVEN

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

NOTES:

Leakage with the outer panels removed -less than 5 mW/cm².

Leakage for a fully assembled oven ("Before the latch switch (primary)is interrupted")with the door in a slightly opened position -less than 1 mW/cm²

NOTE WHEN MEASURING

- (1) Do not exceed meter full scale deflection.
- (2) The test probe must be removed no faster than 1 inch/sec (2.5cm/sec)along the shaded area, otherwise a false reading may result.
- (3) 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.
- (4) 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

- (1) 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.
- (2) Should the microwave energy leakage not be more than 1 mW/cm² after determining that all parts are in good condition, functioning properly and genuine replacement parts which are listed in this manual have been used.
- (3) At least once a year, have the electromagnetic energy leakage monitor checked for calibration by its manufacturer.

POWER OUTPUT MEASUREMENT

- (1) 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.
- (2) The water is contained in a cylindrical borosilicate glass vessel having a maximum material thickness of 1/8" (3 mm)and an outside diameter of approximately 7.6" (190mm).
- (3) The oven and the empty vessel are at ambient Temperature(T₀)prior to the start of the test.
- (4) The initial temperature (T₁)of the water is (10 ±1)°C (50 °F)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 turntable which is in the lowest position and the microwave power switched on.
- (5) The time t for the temperature of the water to rise by a value T of (10 ±1)°K is measured, where t is the time in seconds and 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.
- (6) The microwave power output P in watts is calculated from the following formula :

$$P = \frac{4.187 Mw(T_2 - T_1) + 0.55Mc(T_2 - T_0)}{t}$$

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

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

Where

P is the microwave power output, in watts:

Mw is the mass of the water, in grams:

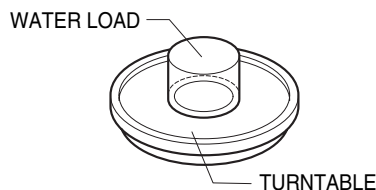
Mc is the mass of the container, in grams:

T₀ is the ambient temperature, in °C:

T₁ is the initial temperature of the water, in °C:

T₂ is the final temperature of the water, in °C:

t is the heating time in seconds, excluding the magnetron filament heat-up time.



DISASSEMBLY INSTRUCTIONS

IMPORTANT NOTES:

UNIT MUST BE DISCONNECTED FROM ELECTRICAL OUTLET WHEN MAKING REPAIRS, REPLACEMENTS, ADJUSTMENTS AND CONTINUITY CHECKS.

WHEN RECONNECTING THE WIRE LEADS TO ANY PART, MAKE SURE THE WIRING CONNECTIONS AND LEAD COLORS ARE CORRECTLY MATCHED ACCORDING TO THE OVERALL CIRCUIT DIAGRAM. (ESPECIALLY SWITCHES AND HIGH VOLTAGE CIRCUIT.)

A. REMOVING POWER AND CONTROL CIRCUIT BOARD (Figures 1, 2 and 3)

- (1) Remove a screw securing the control panel assembly to the oven cavity.
- (2) Remove the control panel with pushing it upward.
- (3) Remove the connectors (CN1) and wire leads (RY2) from the circuit board.

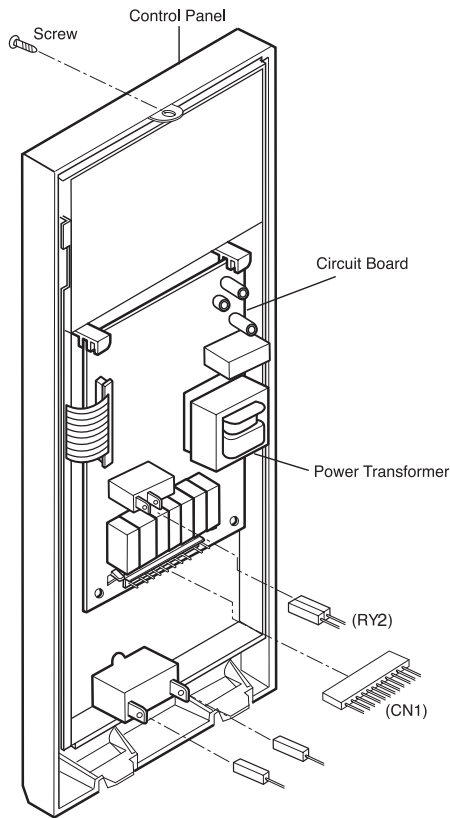


Figure 1

- (4) Remove 5 screws securing the circuit board.

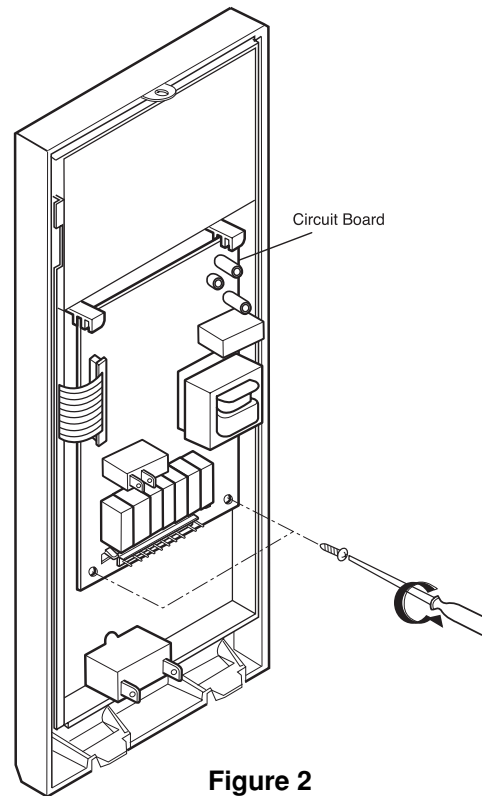


Figure 2

- (5) Remove the FPC connector from the terminal socket following "HOW TO REMOVE THE FPC CONNECTOR" on the next page.
- (6) Remove the circuit board from the control bracket carefully.

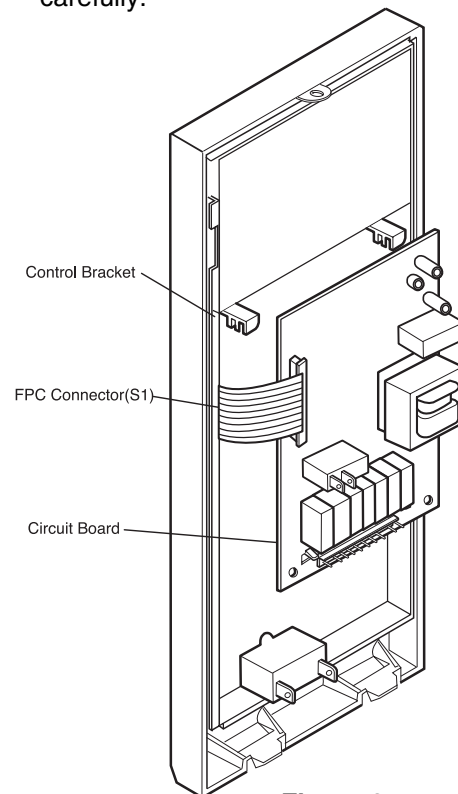


Figure 3

HOW TO REMOVE THE F.P.C. CONNECTOR

Follow the steps below as illustrated in Figures 4 and 5 to remove the F.P.C. connector.

- (1) Hold the edges of the plastic fastener with thumb and forefinger. (Figure 4)
- (2) Lift up the lever of the plastic fastener from the terminal socket by lightly pressing the lever end with forefinger. (Figure 5)
- (3) Remove the F.P.C. connector from the terminal socket.

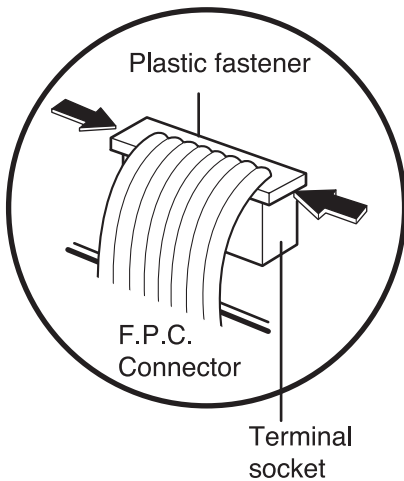


Figure 4

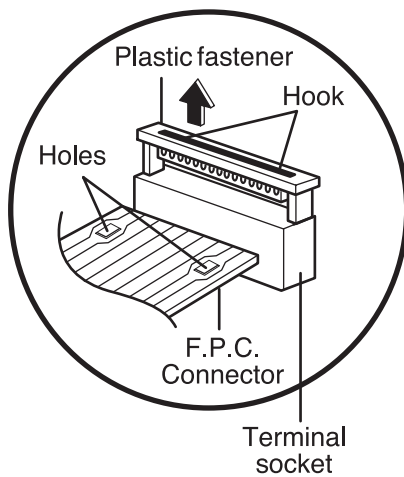


Figure 5

HOW TO INSERT THE F.P.C. CONNECTOR

Follow the steps below as illustrated in Figures 6 and 7 to insert the F.P.C. connector.

- (1) Insert the F.P.C. connector into the terminal socket securely with the fingers.
- (2) Hold the plastic fastener with thumb and forefinger of the other hand, and push it slowly into the terminal socket. (Figure 6)

NOTE: When reconnecting the F.P.C. connector make sure that the holes on the F.P.C. connector are properly engaged with the hooks on the plastic fastener

- (3) Lock the level of the plastic fastener into the hook of the terminal socket securely by releasing the fingers. (Figure 7)

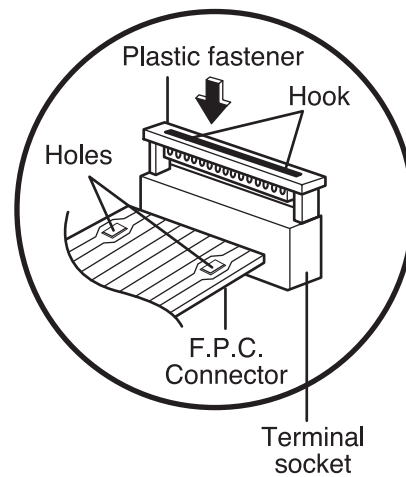


Figure 6

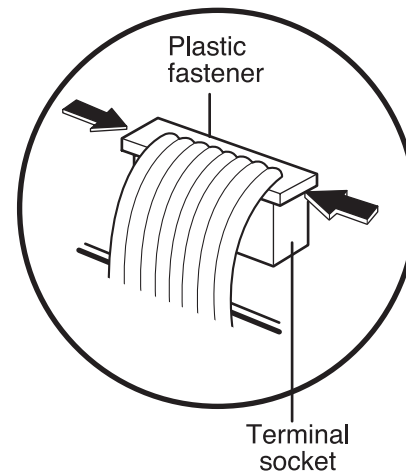


Figure 7

B. REMOVING THE OUT CASE(Figure 8)

- (1) Remove the vent grille by removing two screws securing it to the out case.
- (2) Remove two screws securing it to the air duct.
- (3) Remove the mounting plate by turning the screws (1 or 2 screws)securing it to the out case.
- (4) Remove two screws on the left central edge and one screw on the right central edge of Base plate. Remove the Mount, All from the out case by removing one screw securing it to the out case.
- (5) Remove six screws of the rear cavity.
- (6) Remove the outcase.

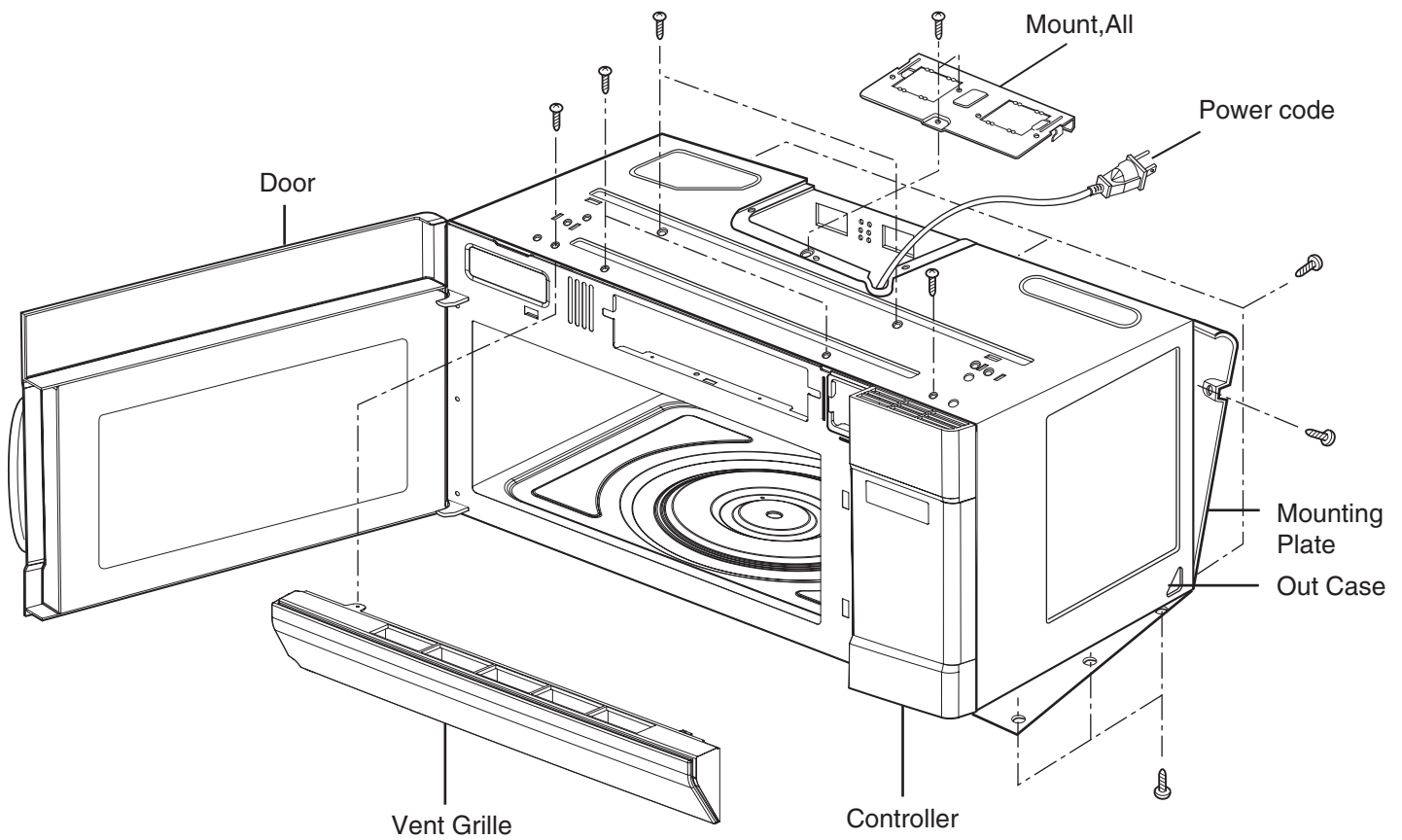


Figure 8

C. REMOVING THE DOOR INTERLOCK SWITCHES (Figures 9, 10)

- (1) Disconnect the wire leads from the interlock switches.
- (2) Remove two screws securing the Latch Board.
- (3) Make necessary replacements and check microwave energy leakage according to "ADJUSTMENT PROCEDURES" on page 7-12.

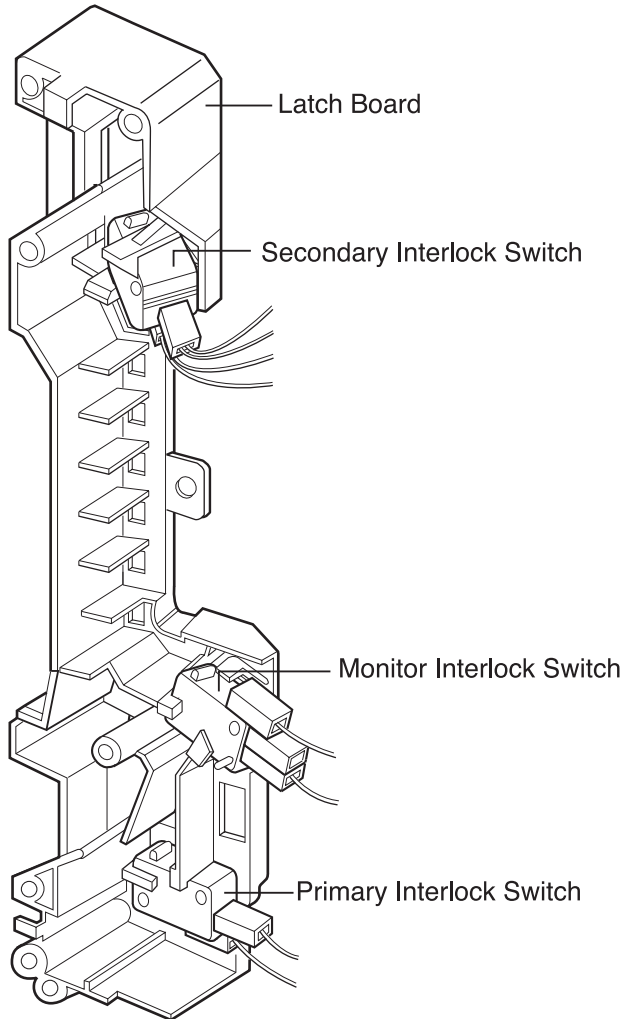


Figure 9

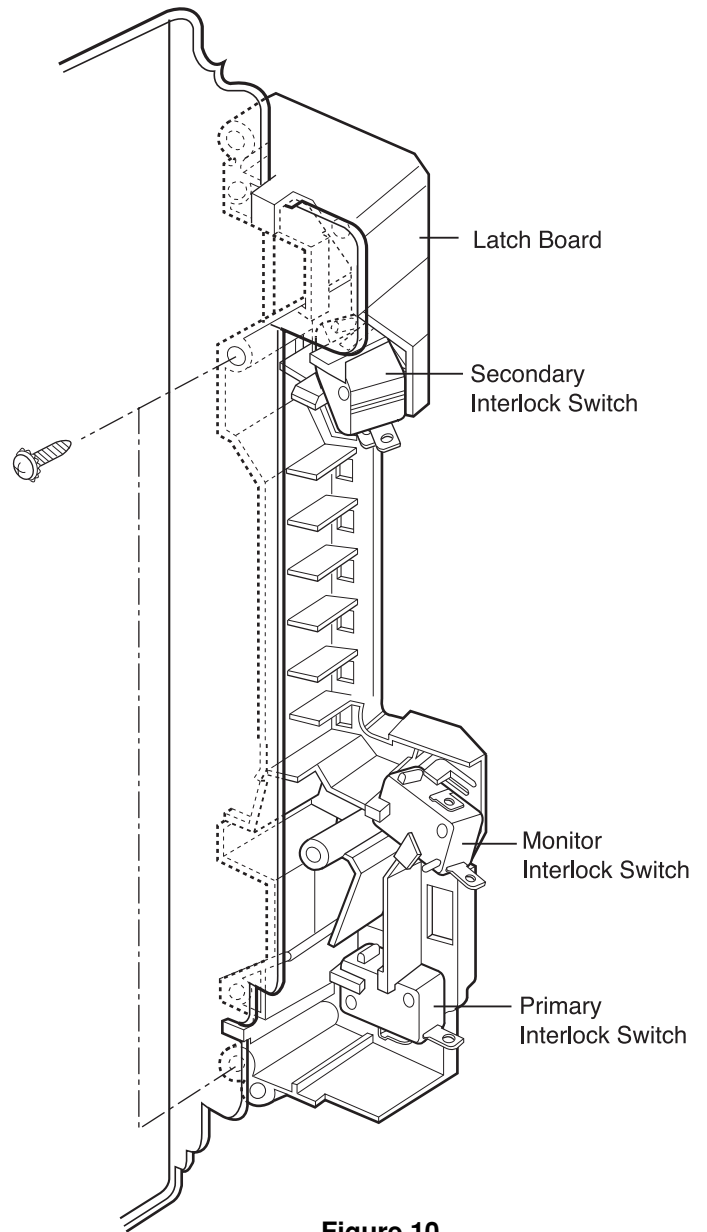


Figure 10

D. REMOVING MAGNETRON

(Figures 11 Through 12)

- (1) Remove the vent grille by loosening two screws.
(Figure 11)
- (2) Remove the outcase. See page 7-6.
- (3) Remove four tap tite screws securing the magnetron to the wave guide.
- (4) Disconnect the leadwire.
- (5) Remove the magnetron VERY CAREFULLY.

NOTES:

- When removing the magnetron, make sure that its dome does not hit any adjacent parts, or it may be damaged.
- 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.
- After replacing the magnetron, check for microwave energy leakage with a survey meter. Check microwave energy leakage must be below the limit of 5 mW/cm². (All service adjustments should be made for minimum microwave energy leakage readings.)

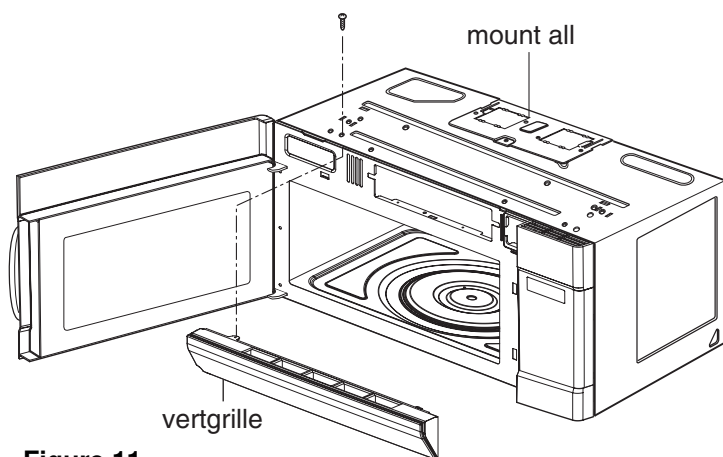


Figure 11

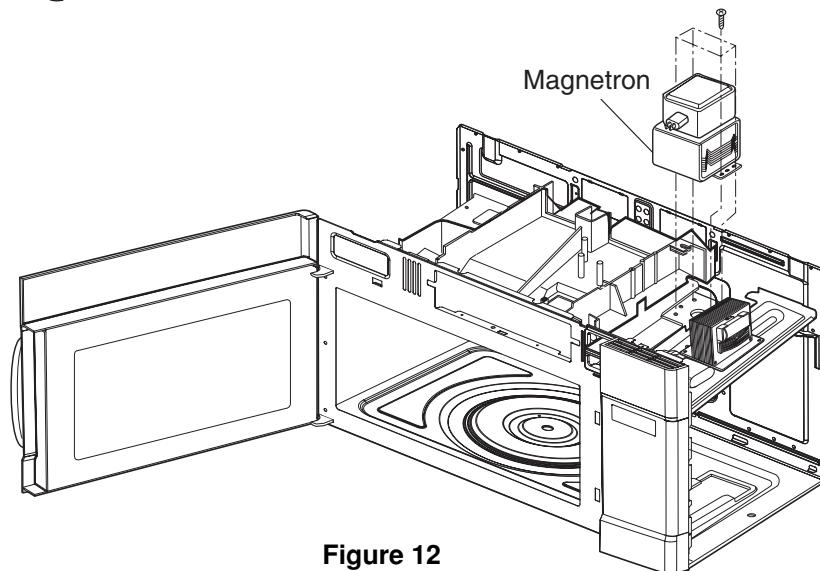


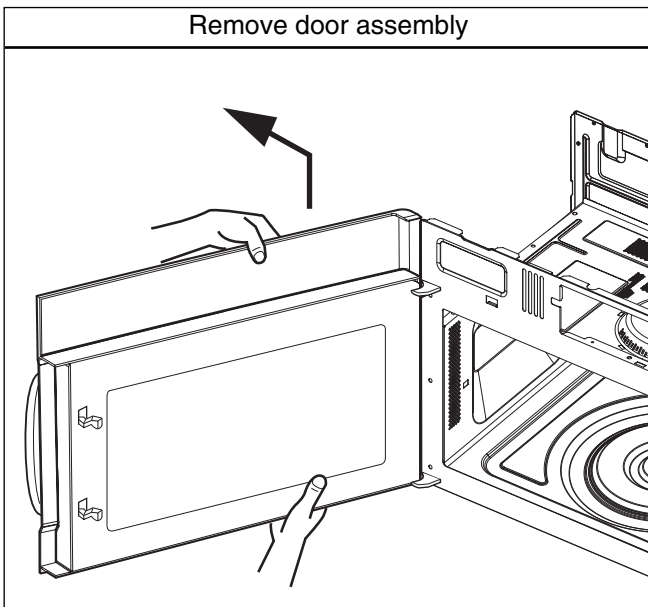
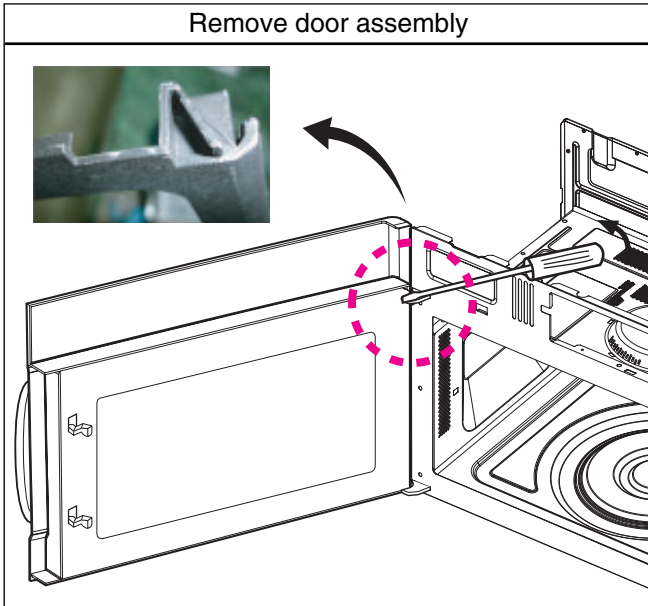
Figure 12

E. DOOR ASSEMBLY / REMOVAL

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

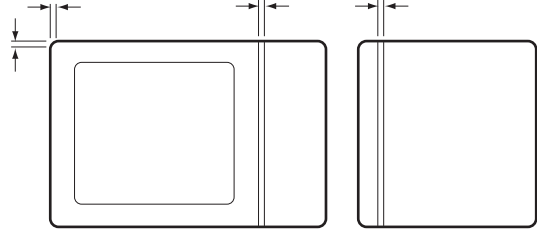
CAUTION : Be careful not to damage door seal plate by screwdriver.

- 3) Lift up and push the door.



F. ASSEMBLING DOOR

- (1) 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.



G. REMOVING THE VENTILATION FAN ASS'Y

- (1) Remove the mounting plate by removing two screws securing it to the back plate. (See Figure 13)
- (2) Remove the two screws securing the MOUNT, ALL and one screw securing the ventilation fan ASS'Y. (See Figure 14-a)

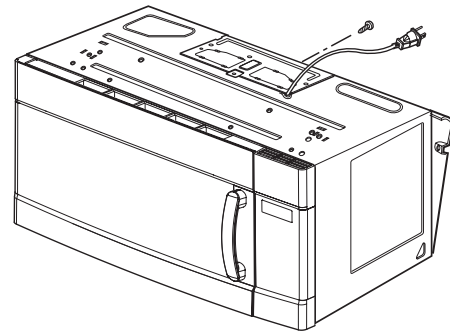


Figure 13

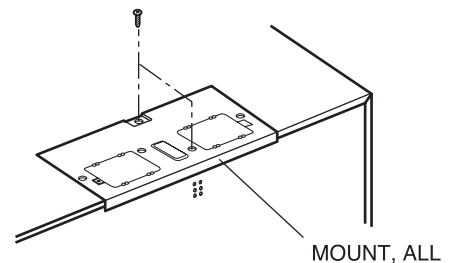


Figure 14-a

- (3) Carefully pull the ventilation motor ASS'Y out of the microwave oven. (See Figure 14-b)

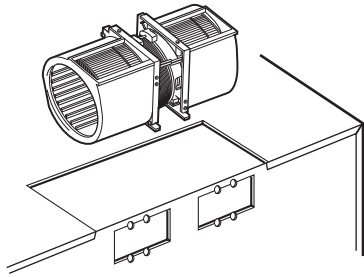


Figure 14-b

H. REMOVING THE TURNTABLE MOTOR

- (1) Remove the glass tray and rotating ring.
- (2) Remove the turntable shaft VERY CAREFULLY with a hand. (Figure 15)
- (3) Remove the base plate by removing 8 screws securing it to the oven cavity. (Figure 16)
- (4) Disconnect the leadwire from the turntable motor terminals.
- (5) Remove the 1 screws securing the turntable motor to the oven cavity ASS'Y. (Figure 17)

NOTES:

- Remove the leadwire from the turntable motor VERY CAREFULLY.
- Be sure to grasp the connector not the wires when removing.

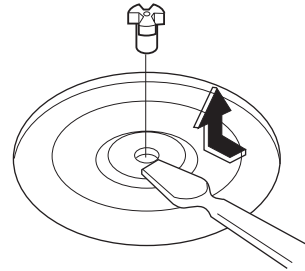


Figure 15

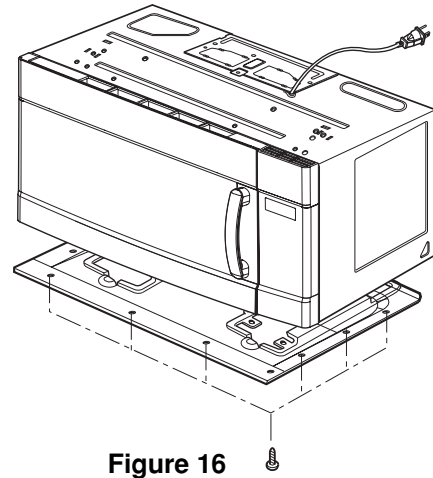


Figure 16

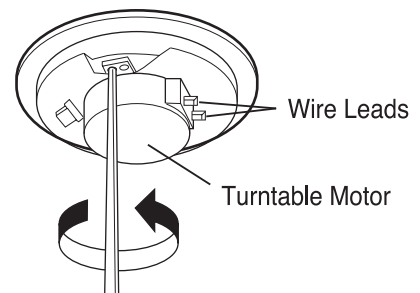


Figure 17

INTERLOCK SYSTEM

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.

ADJUSTMENT PROCEDURES

To avoid possible exposure to microwave energy leakage, adjust the door latches and interlock switches, using the following procedure.

The Interlock Monitor and Primary Interlock Switch act as the final safety switch protecting the user from microwave energy. The terminals between "COM" and "NC" of the Interlock Monitor must close when the door is opened. After adjusting the Interlock Monitor Switch, make sure that it is correctly connected. Mounting of the primary/monitor/secondary switches to the latch board.

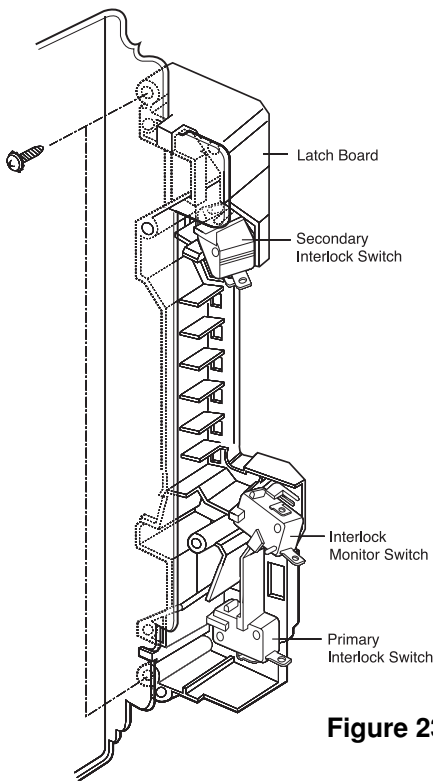


Figure 23-a

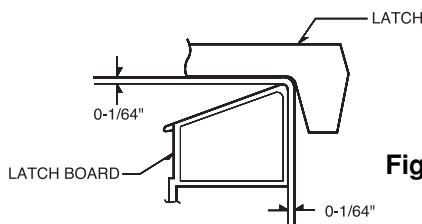


Figure 23-b

CHECK THE DOOR LATCH AND SWITCH CLOSING.

NOTE:

The outer cover of the microwave oven is removed.

- (1) Set the microwave oven on its side so that you can see the latch board and the switches, as shown in Figure 23-a.
- (2) Close the door tightly and check gaps A and B to be sure they are no more than 1/64" (0.5 mm). See Figure 23-b for close-up view of gaps A and B (door latches). If all gaps are less than 1/64" (0.5 mm), adjustment of the latch board may not be necessary. Go to Steps 5 and 6 to check the sequence of the switches.

NOTE:

To correct sequence of the Primary Interlock Switch, Secondary Interlock Switch and the Interlock Monitor Switch is very important.

If any gap is larger than 1/64" (0.5 mm), you will need to adjust the latch board". Go to step 3 and follow all steps in order.

ADJUST THE LATCH AND SWITCH CLOSING

- (3) Loosen the two screws holding the plastic latch board as shown.
- (4) With the oven door closed tightly, move the latch board upward toward the top of the oven and/or away from the door latch until the gaps are less than 1/64" (0.5 mm). Hold the latch board tightly in this position until you check the sequence of the switches in steps 5 and 6.

TEST THE LATCH AND SWITCH SEQUENCE

- (5) Open the oven door slowly. Watch the door latch, the Secondary Switch. Release Rod and Lever on the switches to make sure they are zero to the body of the switches in the following sequence:

- Primary Interlock Switch
- Secondary Interlock Switch
- Interlock Monitor Switch

Adjust the latch board until the switches operate in this sequence. See Steps 3 and 4.

- (6) Close the oven door slowly and be sure it is tightly closed. Watch the three switches to make sure they are zero to the body of the switches in the following sequence:

- Interlock Monitor Switch
- Primary Interlock Switch
- Secondary Interlock Switch

NOTE: The Interlock Monitor Switch is an added safety check on the Primary and Secondary Interlock Switches. If the Primary and Secondary Interlock Switches allow the oven to operate with the door open, the Monitor Switch will blow the fuse.

- (7) When you achieve the proper sequence of switches in Steps 5 and 6, tighten the latch board screws at that point.

TEST THE MICROWAVE ENERGY LEAKAGE

Make sure the microwave energy leakage is below the limit of $1\text{mW}/\text{cm}^2$ (with a 275 ml water load) and $5\text{mW}/\text{cm}^2$ (with a 275 ml water load without the cabinet) when measured with a survey meter.

INTERLOCK CONTINUITY TEST

A. PRIMARY INTERLOCK SWITCH TEST

When the door is opened slowly, an audible **click** should be heard at the same time or successively at intervals and 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 adjusted in accordance with the adjustment procedure.

Disconnect the wire lead 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 only with the same type of switch.

B. SECONDARY INTERLOCK SWITCH TEST

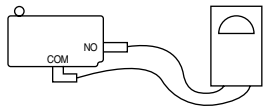



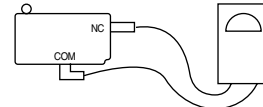



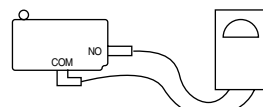



Disconnect the wire lead from the secondary switch.

Connect the ohmmeter leads to the common (COM) and normally open (NO) terminals of the switch. The meter should indicate an open circuit in the door open condition. 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 only with the same type of switch.

C. MONITOR SWITCH TEST

Disconnect the wire lead 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 in the door open condition. When the door is closed, meter should indicate an open circuit. When the monitor switch operation is abnormal, replace 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		RESULTS	
SWITCHES (Wire leads removed)	Check for continuity of the switch with an Ohm-meter		Door open	Door closed
Primary Switch				
Monitor Switch				
Secondary Switch				
NOTE : After checking for the continuity of switches, make sure that they are connected correctly.				

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

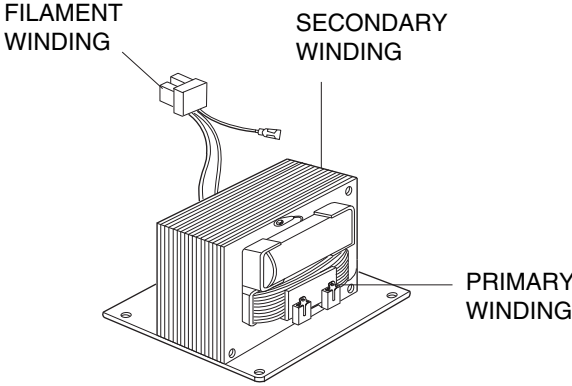
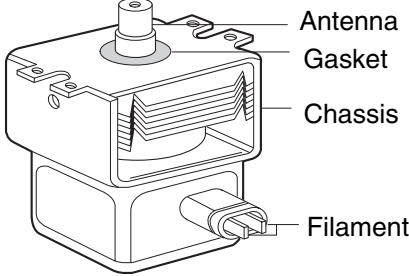
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 TYPE NO.SZM-V16-FA-62 FOR MONITOR SWITCH
 TYPE NO.SZM-V16-FA-63 FOR SECONDARY SWITCH

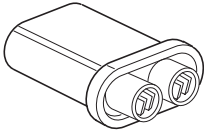
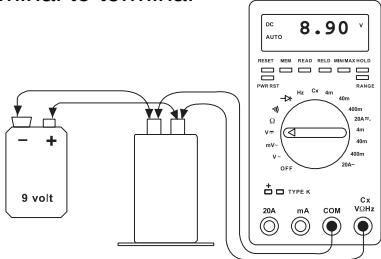
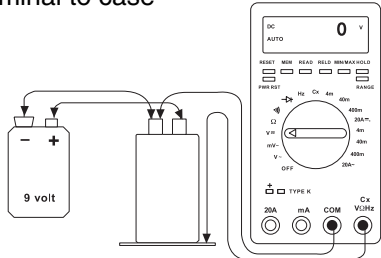
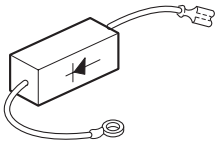
TEST AND CHECKOUT PROCEDURES AND TROUBLESHOOTING

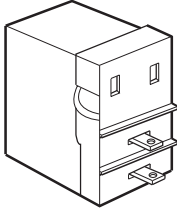
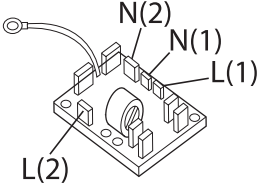
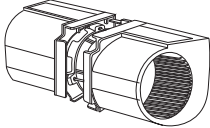
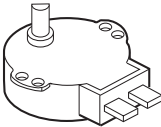
CAUTIONS

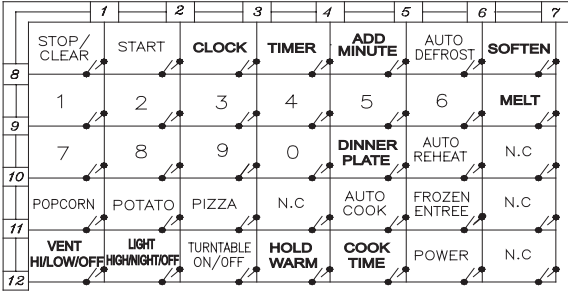
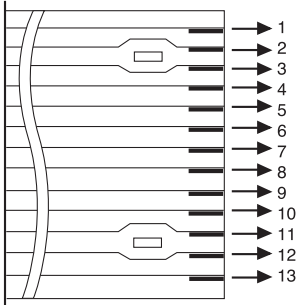
1. DISCONNECT THE POWER SUPPLY CORD FROM THE OUTLET WHENEVER REMOVING THE OUTER CASE FROM THE UNIT. PROCEED WITH THE TEST ONLY AFTER DISCHARGING THE HIGH VOLTAGE CAPACITOR AND REMOVING THE LEAD WIRES FROM THE PRIMARY WINDING OF THE HIGH VOLTAGE TRANSFORMER.
2. ALL OPERATIONAL CHECKS WITH MICROWAVE ENERGY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

A. TEST PROCEDURES

COMPONENTS	TEST	RESULTS
<p>TRANSFORMER</p>	 <p>1. Remove wire leads.</p> <p>2. Measure resistance. (ohm meter scale: Rx1)</p> <ul style="list-style-type: none"> • Primary winding • Secondary winding • Filament winding <p>3. Measure resistance. (ohm meter scale: Rx1000)</p> <ul style="list-style-type: none"> • Primary winding to ground • Filament winding to ground 	<p>Approx. 0.2 to 0.5 ohms Approx. 50 to 120 ohms 0 ohm</p> <p>Normal: Infinite Normal: Infinite</p>
<p>MAGNETRON</p>	 <p>1. Remove wire leads. Install the magnetron seal in the correct position. Check that the seal is in good condition.</p> <p>2. Measure resistance. (ohm meter scale: Rx1)</p> <ul style="list-style-type: none"> • Filament terminal <p>3. Measure resistance. (ohm meter scale: Rx1000)</p> <ul style="list-style-type: none"> • Filament to chassis 	<p>Normal: Less than 1 ohm Abnormal: Infinite</p> <p>Normal: Infinite</p>

COMPONENTS	TEST	RESULTS
<p>H.V.CAPACITOR</p> 	<ol style="list-style-type: none"> 1. Check DC 9V battery before performing tests. 2. Select the DCV scale on the meter. 3. Using the meter, battery, and jump wire, connect the items as illustrated in figures. <ul style="list-style-type: none"> • Terminal to terminal  <ul style="list-style-type: none"> • Terminal to case 	<p>Normal: Approximately 9V</p> <p>Abnormal : Approximately 0V</p> <p>Normal: Approximately 0V or a value displayed in mV Will be seen.</p>
<p>H.V.DIODE (RECTIFIER)</p> 	<p>STEP 1. Test the diode to see if it is shorted.</p> <p>Procedure:</p> <ol style="list-style-type: none"> 1. Select the ohm scale on the meter. 2. Place the meter leads across the diode as pictured in Figure 1. The reading should be “40M,” “OL,” or a reading of infinity. 3. Reverse the meter leads. The reading should again indicate a reading of infinity. If the diode shows “infinity” in BOTH directions, it is NOT shorted. 4. If the diode is not shorted, proceed to step 2. <p>STEP 2. Test the diode for forward biasing.</p> <p>Procedure:</p> <ol style="list-style-type: none"> 1. Select the DCV scale on the meter. 2. Using the meter, battery, and jumper wire, connect the items as illustrated in Figure 2. This has the positive side of the battery connected to the cathode of the diode. 3. The diode should be forward biased therefore a voltage reading of approximately 4.7 VDC to 6.4 VDC will be read depending on meter, battery strength, etc. (Note: If the meter leads were reversed, a negative voltage of the same amount would be seen.) <p>STEP 3. Test the diode for reverse biasing.</p> <p>Procedure:</p> <ol style="list-style-type: none"> 1. Using the same scale on the meter, connect the positive side of the battery to the anode of the diode as illustrated in Figure 3. 2. The diode should be reverse biased therefore a reading of 0 volt or a value displayed in mV will be seen. (The display will be erratic changing values rapidly in the mV scale.) 	<p>Normal: Approximately 4 .7-6.4V</p> <p>Normal: Approximately 0V</p>

COMPONENTS	TEST	RESULTS																																	
<p>RELAY 2</p>	<p>1. Measure continuity. (ohm meter scale: Rx1)</p> <p>2. Remove the lead wires and operate oven at power level 1 through power level 10.</p> 	<table border="1"> <thead> <tr> <th>Power Level</th> <th>Open</th> <th>Close</th> </tr> </thead> <tbody> <tr><td>1</td><td>4 Sec</td><td>18 Sec</td></tr> <tr><td>2</td><td>6 Sec</td><td>16 Sec</td></tr> <tr><td>3</td><td>8 Sec</td><td>14 Sec</td></tr> <tr><td>4</td><td>10 Sec</td><td>12 Sec</td></tr> <tr><td>5</td><td>12 Sec</td><td>10 Sec</td></tr> <tr><td>6</td><td>14 Sec</td><td>8 Sec</td></tr> <tr><td>7</td><td>16 Sec</td><td>6 Sec</td></tr> <tr><td>8</td><td>18 Sec</td><td>4 Sec</td></tr> <tr><td>9</td><td>20 Sec</td><td>2 Sec</td></tr> <tr><td>10</td><td>22 Sec</td><td>0 Sec</td></tr> </tbody> </table>	Power Level	Open	Close	1	4 Sec	18 Sec	2	6 Sec	16 Sec	3	8 Sec	14 Sec	4	10 Sec	12 Sec	5	12 Sec	10 Sec	6	14 Sec	8 Sec	7	16 Sec	6 Sec	8	18 Sec	4 Sec	9	20 Sec	2 Sec	10	22 Sec	0 Sec
Power Level	Open	Close																																	
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7	16 Sec	6 Sec																																	
8	18 Sec	4 Sec																																	
9	20 Sec	2 Sec																																	
10	22 Sec	0 Sec																																	
<p>NOISE FILTER</p>	<p>1. Unplug microwave oven or disconnect power. 2. Remove wires. 3. Measure resistance (ohm meter scale: Rx1000)</p> 	<p>Nmormal: L(1) or L(2)-N(1) or N(2)(resistor):</p> <p>Normal: Abnormal:infinite N(1)-N(2)(coil):Less than 1 ohm L(1)-L(2)(coil):Less than 1 ohm Abnormal: 0 ohms 1.5M ohms</p>																																	
<p>VENTILATION MOTOR</p>	<p>1. Remove wire leads. 2. Measure resistance. (ohm meter scale: Rx1) High speed: Blue and Black wire Low speed:Blue and White wire Slow speed:Gray and White wire</p> 	<p>Normal: High speed: Approximately 60 to 75 ohm Low speed: Approximately 110 to 125 ohm Slow speed: Approximately 65 to 85 ohm</p>																																	
<p>TURNTABLE MOTOR</p>	<p>1. Remove wire leads. 2. Measure resistance. (ohm meter scale: Rx1000)</p> 	<p>Normal: Approximately 2.0 to 3.5 Kohms</p> <p>Abnormal: Infinite or several.</p>																																	

COMPONENTS	TEST	RESULTS						
<p>TOUCH KEY BOARD</p>	<p>Measure the resistance between terminal pins of connector KEY CONNECTOR.</p> <p>NOTE: When reconnecting the FPC connector, make sure that the holes on the FPC connector are properly engaged with hooks on the plastic fastener.</p> <p style="text-align: center;">MATRIX CIRCUIT FOR TOUCH KEY BOARD</p> <p style="text-align: center;">CONNECTOR(KEY CON)</p> 	<table border="1"> <thead> <tr> <th>Resistance value</th> <th>When touched</th> <th>When not touched</th> </tr> </thead> <tbody> <tr> <td></td> <td>Less than 400 ohms</td> <td>More than 1 mega ohm</td> </tr> </tbody> </table> <p style="text-align: center;">FPC CONNECTOR Top</p> 	Resistance value	When touched	When not touched		Less than 400 ohms	More than 1 mega ohm
Resistance value	When touched	When not touched						
	Less than 400 ohms	More than 1 mega ohm						

NOTES:

- A MICROWAVE ENERGY 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.

B. CHECKOUT PROCEDURES

(1) CHECKOUT PROCEDURES FOR FUSE BLOWING

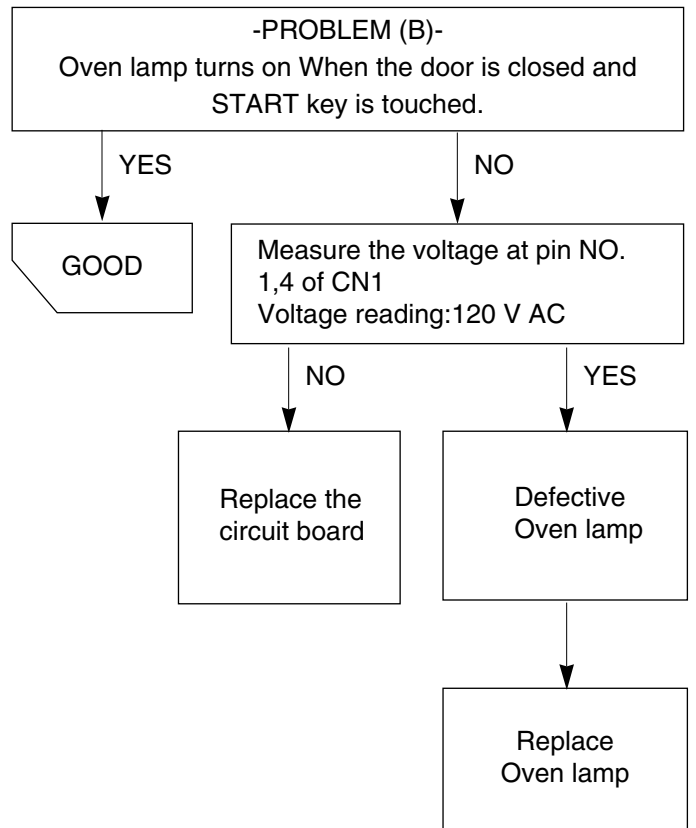
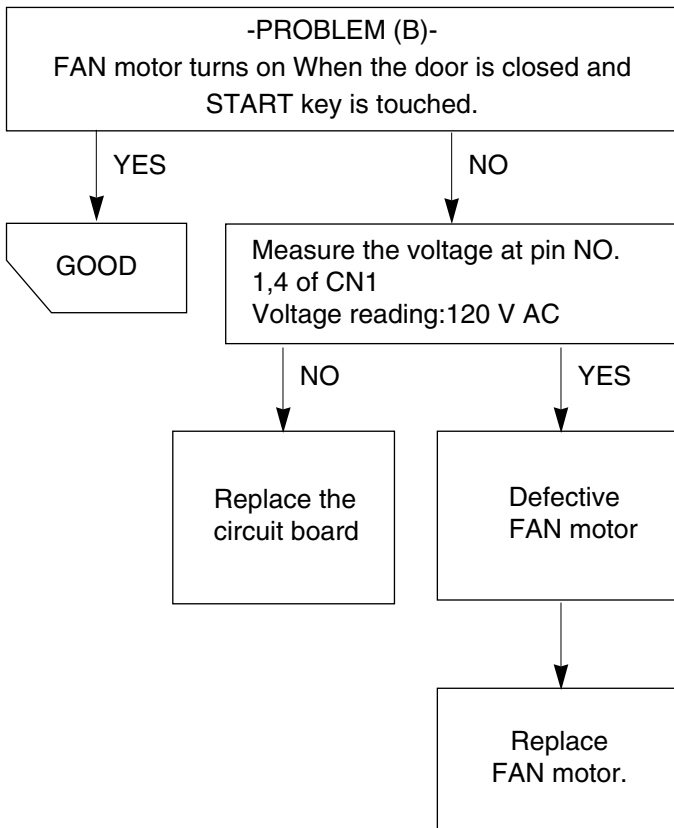
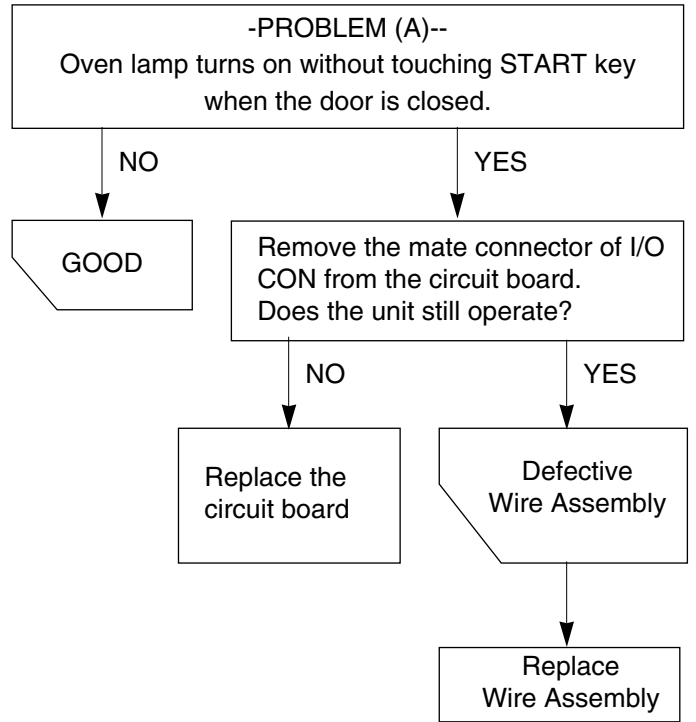
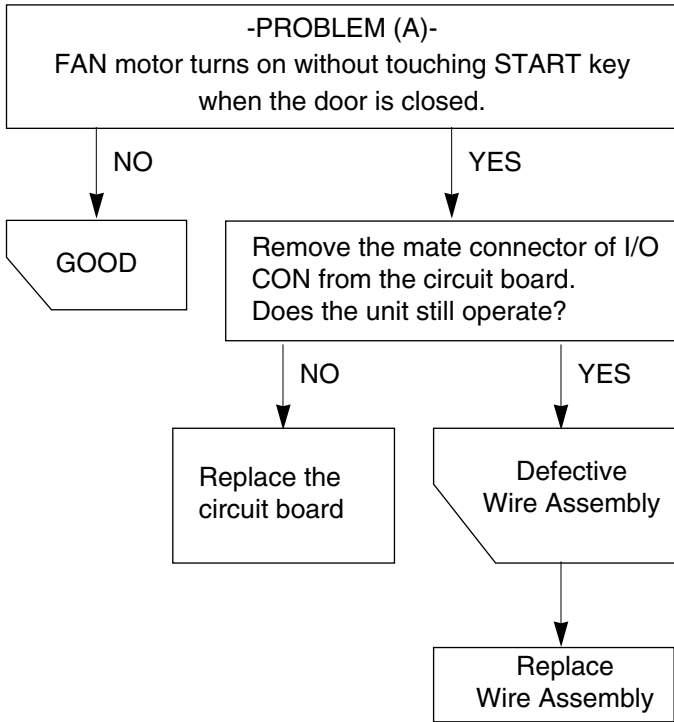
CAUTION: REPLACE BLOWN FUSE WITH 20 AMPERE FUSE.

PROBLEMS	CAUSES
Fuse blows immediately after the door is closed.	Improper operation of the primary interlock, secondary interlock switches and/or the interlock monitor switch.
Fuse blows immediately after the door is opened.	
Fuse blows when the door is closed and START key is touched.	Malfunction of the high voltage transformer; the high voltage capacitor including the diode, the magnetron, the blower motor or the circuit board.

NOTES:

- If the fuse is blown by an improper switch operation, replace all switches and the fuse at the same time. After replacing the defective switches with new ones, make sure that they are correctly connected.
- Check for microwave energy leakage according to INTERLOCK ADJUSTMENT PROCEDURES on page 7-12 when the primary interlock, secondary interlock switches and/or the interlock monitor switches are adjusted or replaced.

(2)CHECKOUT PROCEDURES FOR RELAY.



(3) CHECKOUT PROCEDURES FOR CIRCUIT BOARD

The following symptoms indicate a defective circuit board.

- 1) The start function fails to operate but the high voltage Systems, the interlock switches, the door sensing and the relay check good.
- 2) The unit with a normal relay continuously operates.
- 3) Proper temperature measurement is not obtained.
- 4) The buzzer does not sound or continues to sound.
- 5) Some segments of one or more digits do not light up, or they continue to light up, or segments light when they should not.
- 6) Wrong figures appear.
- 7) The figures of all digits.
- 8) Some of the indicators do no flicker light up.
- 9) The clock does not keep time properly.

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

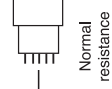
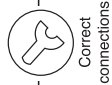
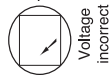
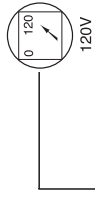
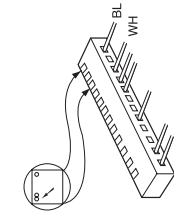
C. TROUBLE SHOOTING

Before following this troubleshooting read "TRIAL OPERATION" on page 6-1.

- "DISPLAY" Problems, "A" thru "C"
- "HELP UP" Problems, "D" thru "E"
- "BUZZER Problems, "F"

PROBLEM - A: "PLEASE SET TIME OF DAY" does not appear in display window when power supply cord is plugged into wall outlet.

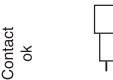
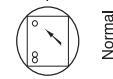
- 1** Check: 1. POWER SUPPLY
 2. FUSE (See "CHECKOUT PROCEDURES FOR FUSE BLOWING: on page 7- 18)
 3. OVEN CAVITY THERMOSTAT



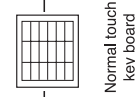
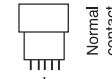
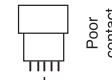
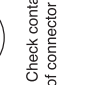
Measure voltage between pin 1 and pin 3 of connector CN1.

PROBLEM - B: Display does not show correct numbers and/or correct indications when programmed.

- 1**



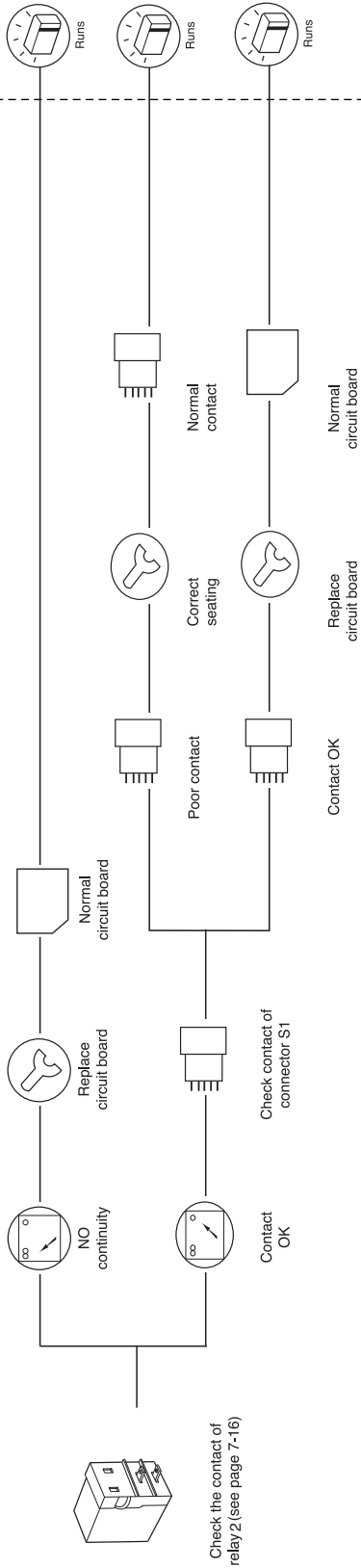
Measure resistance of touch key board after removing connector S1. (See page 7-4 and 7-17)



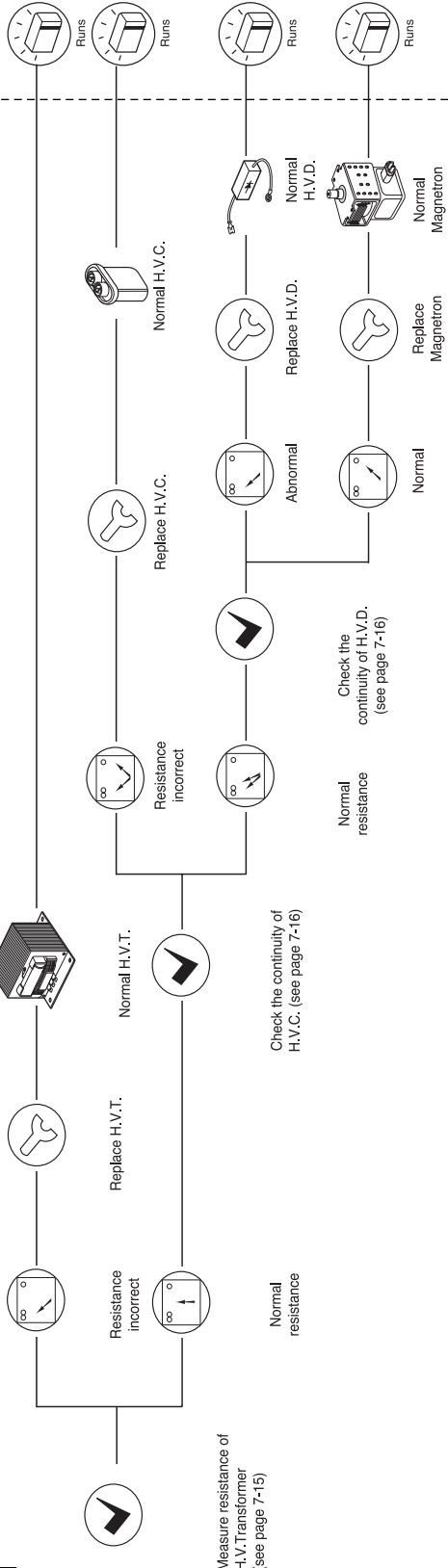
Measure resistance of touch key board after removing connector S1. (See page 7-4 and 7-17)

PROBLEM - E: Unit does not heat up even if display counts down when START key is touched for "HIGH POWER" cooking.

1 Check: 1. PRIMARY AND SECONDARY INTERLOCK SWITCHES
2. THERMOSTAT



2



PROBLEM - F: No buzzing when touching the key, between stages or at end of cooking

1



Check normal operation circuit board



Replace circuit board



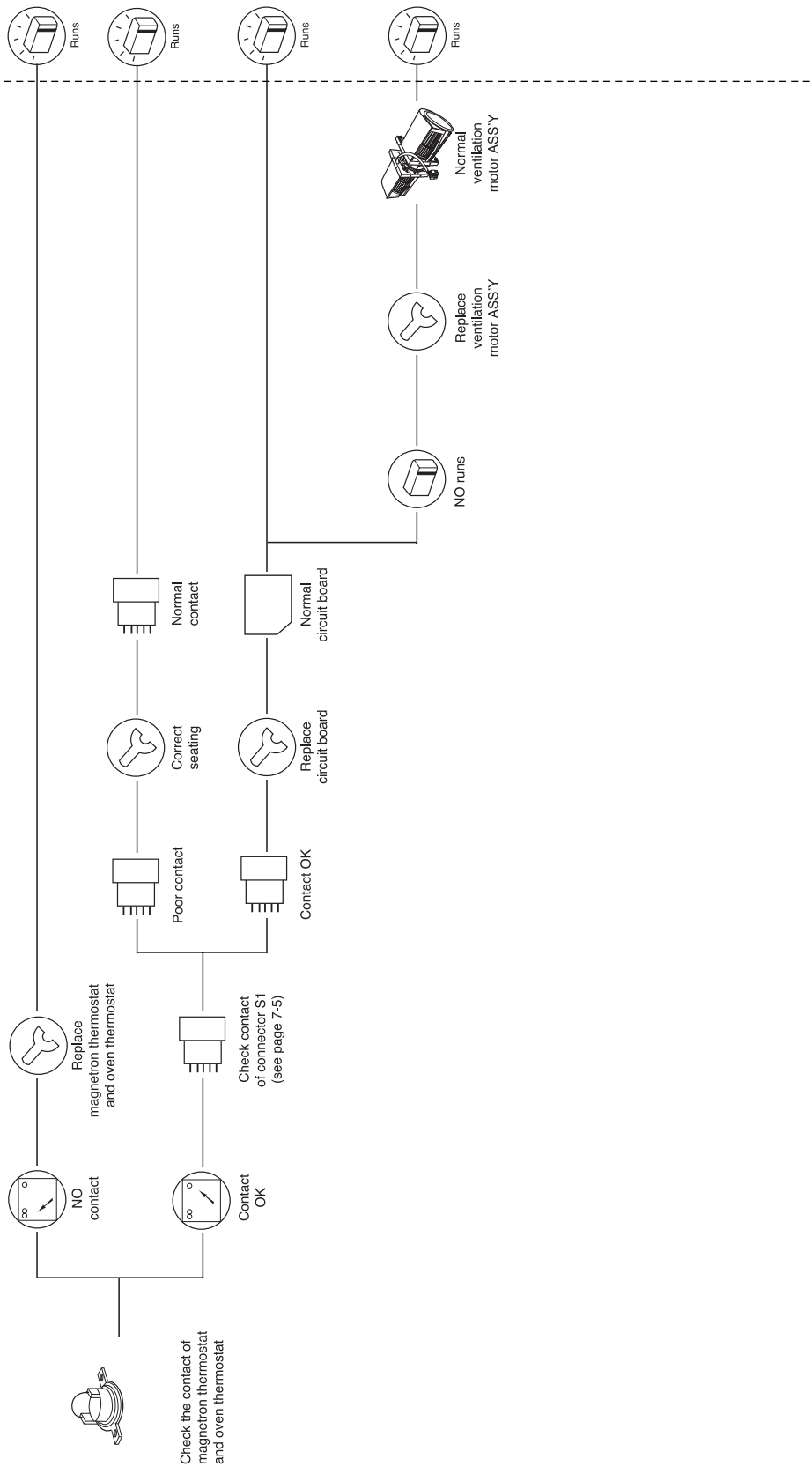
Normal circuit board



Runs

PROBLEM - Ventilation fan does not operate when "ON/OFF" key is touched.

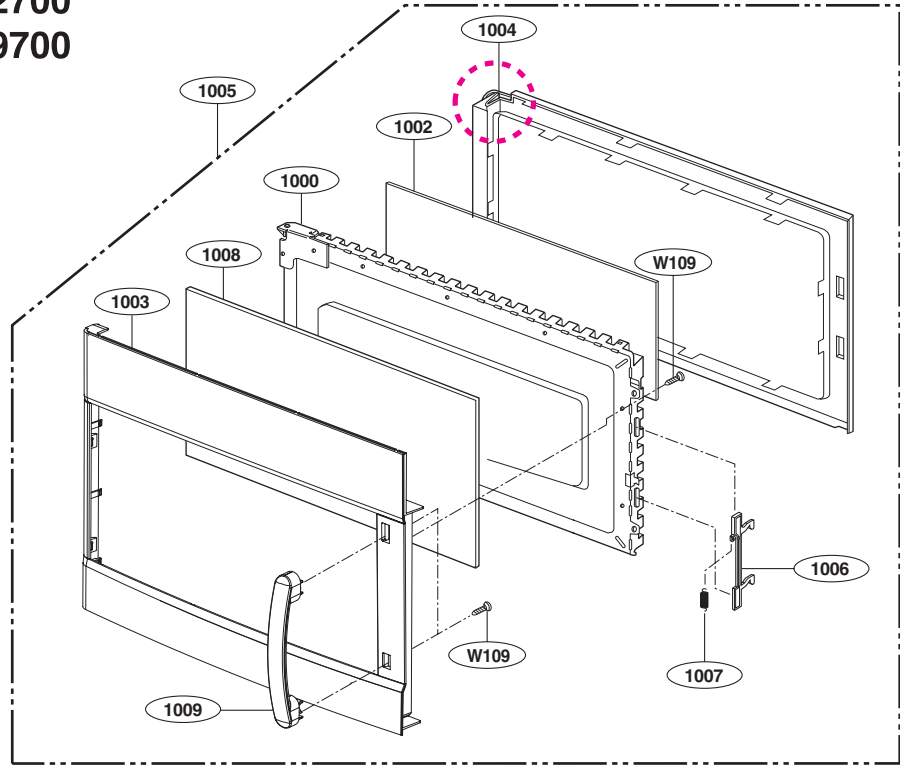
1 Check: 1. POWER SUPPLY
2. FUSE



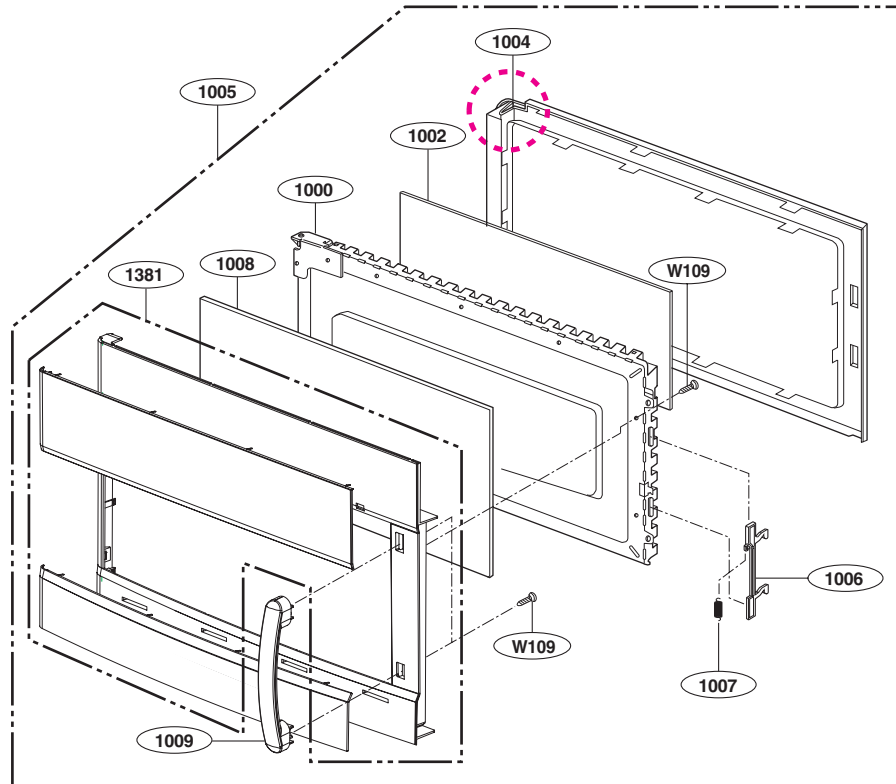
EXPLODED VIEW

DOOR PARTS

FOR MODEL : 721.80032700
721.80039700

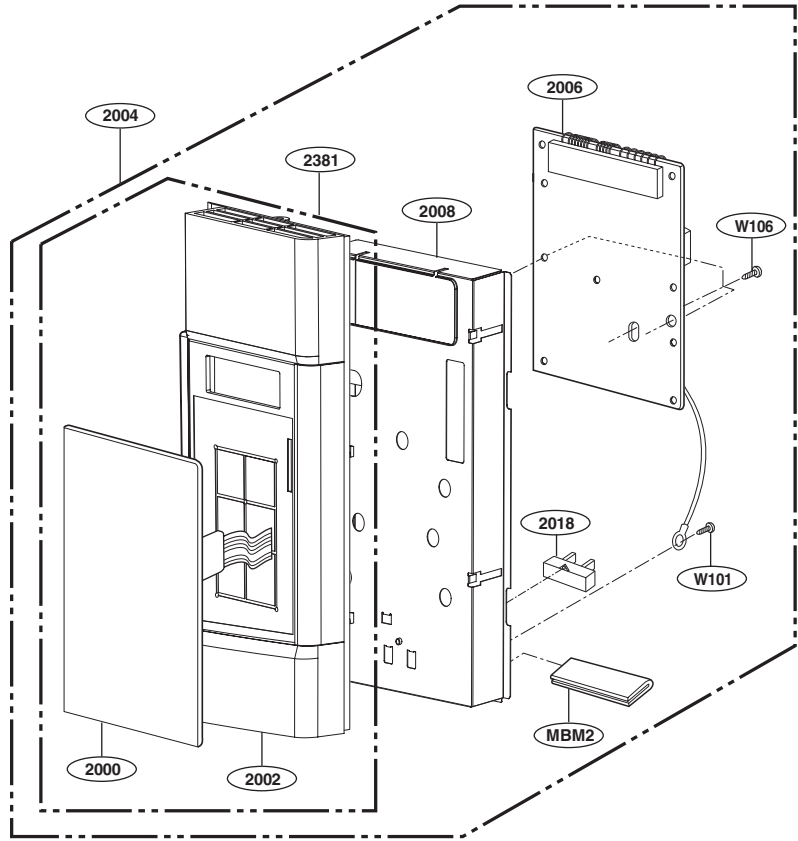


FOR MODEL : 721.80033700

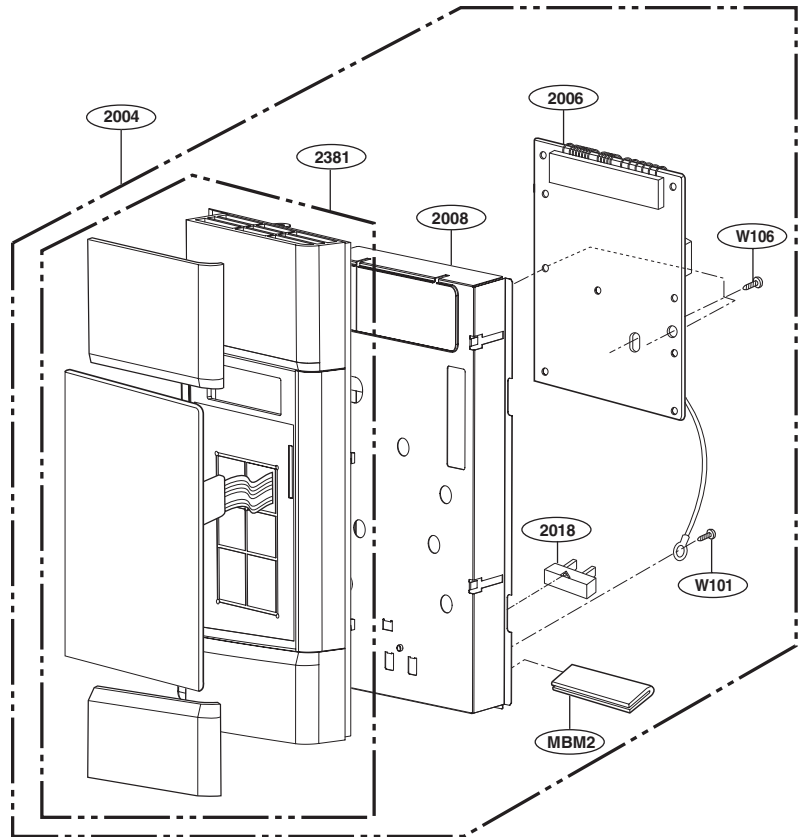


CONTROLLER PARTS

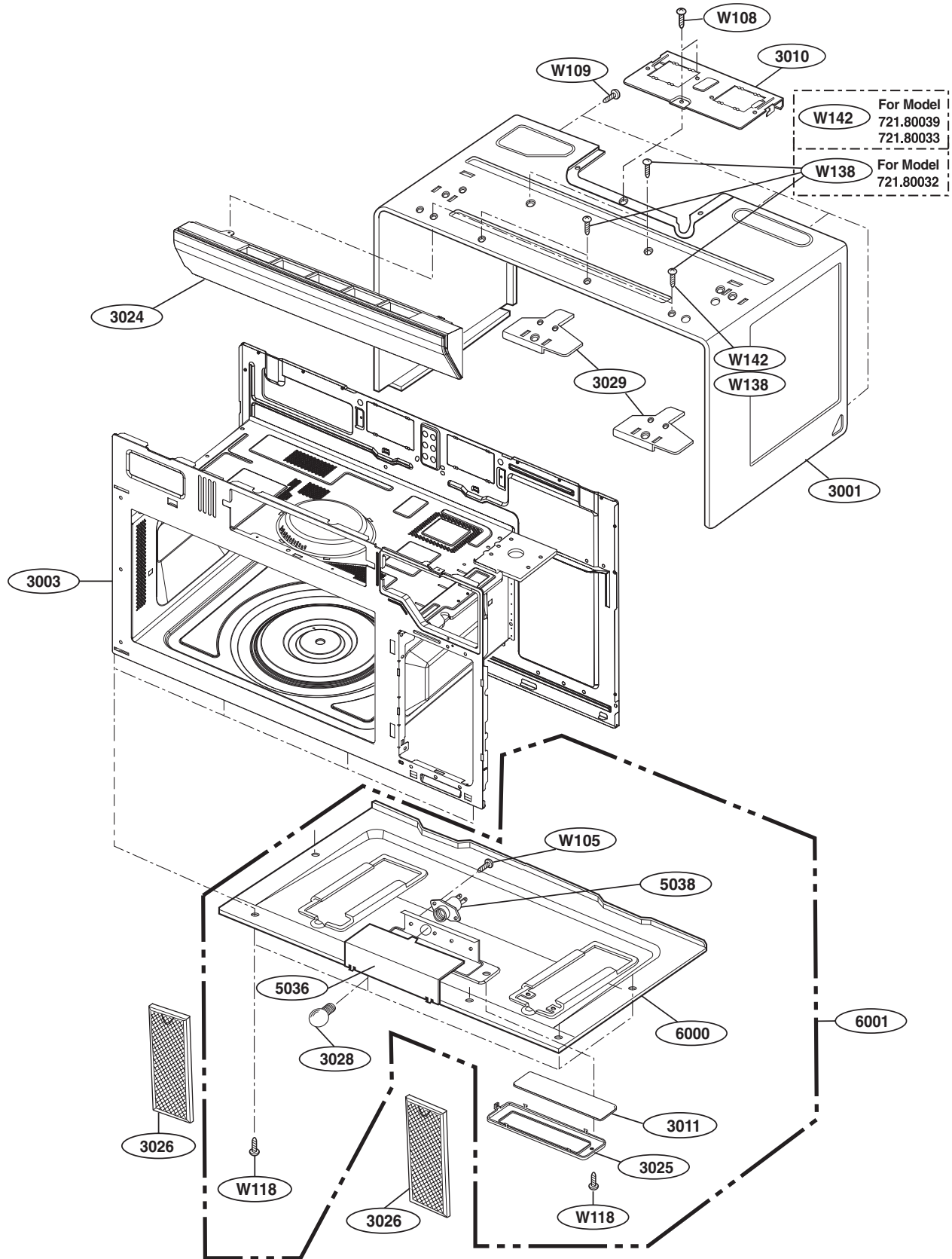
FOR MODEL : 721.80032700
721.80039700



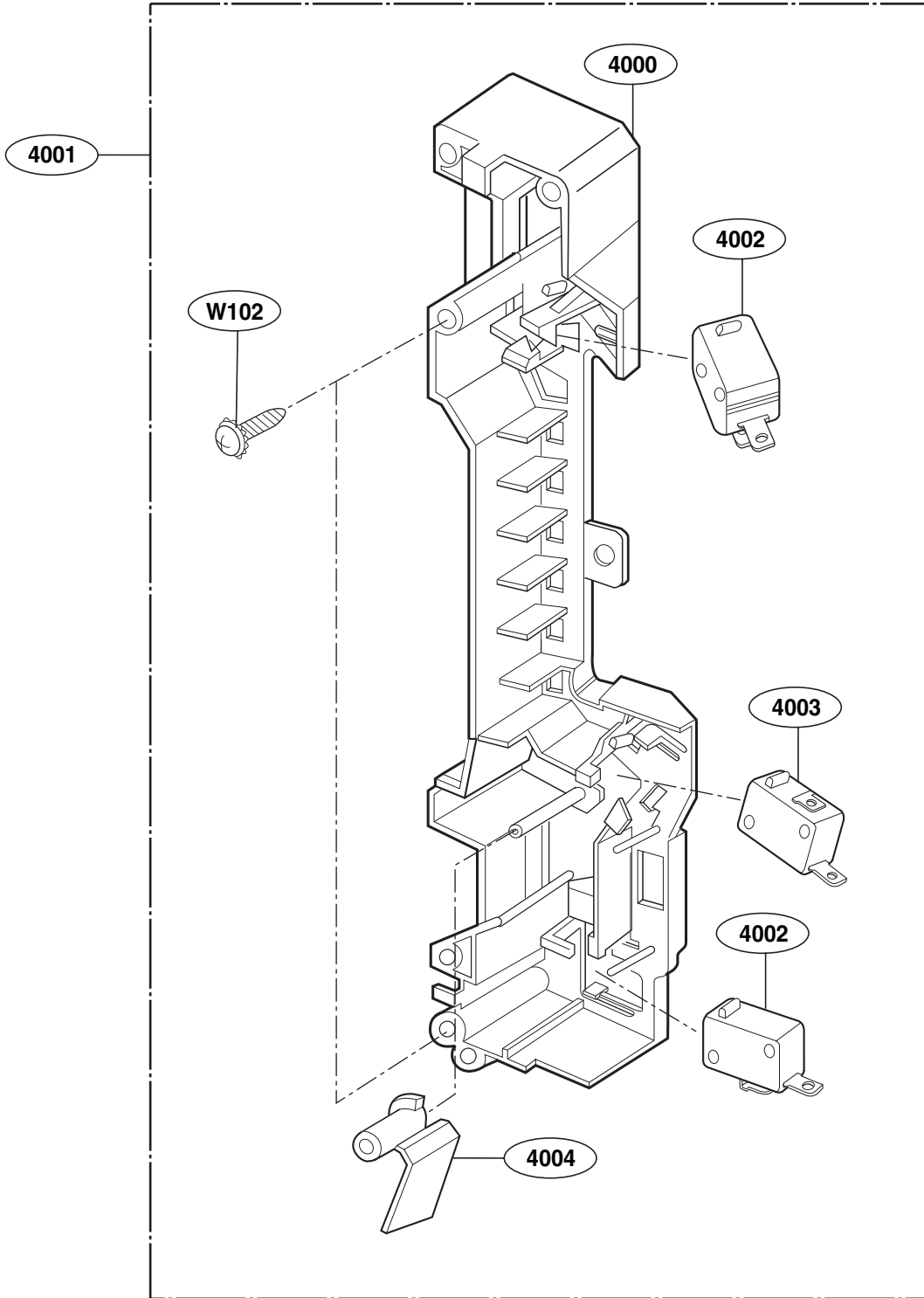
FOR MODEI : 721.80033700



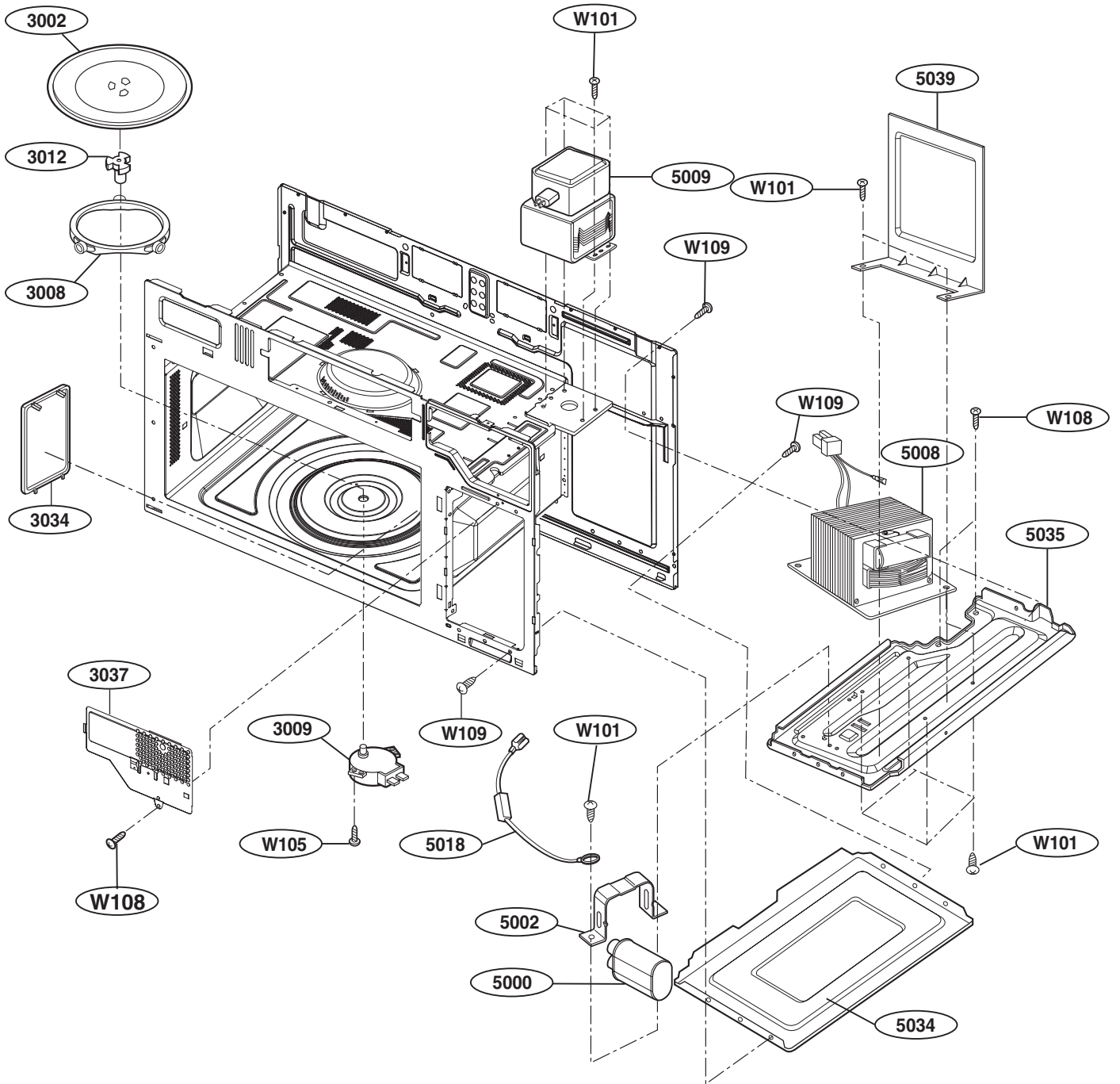
OVEN CAVITY PARTS



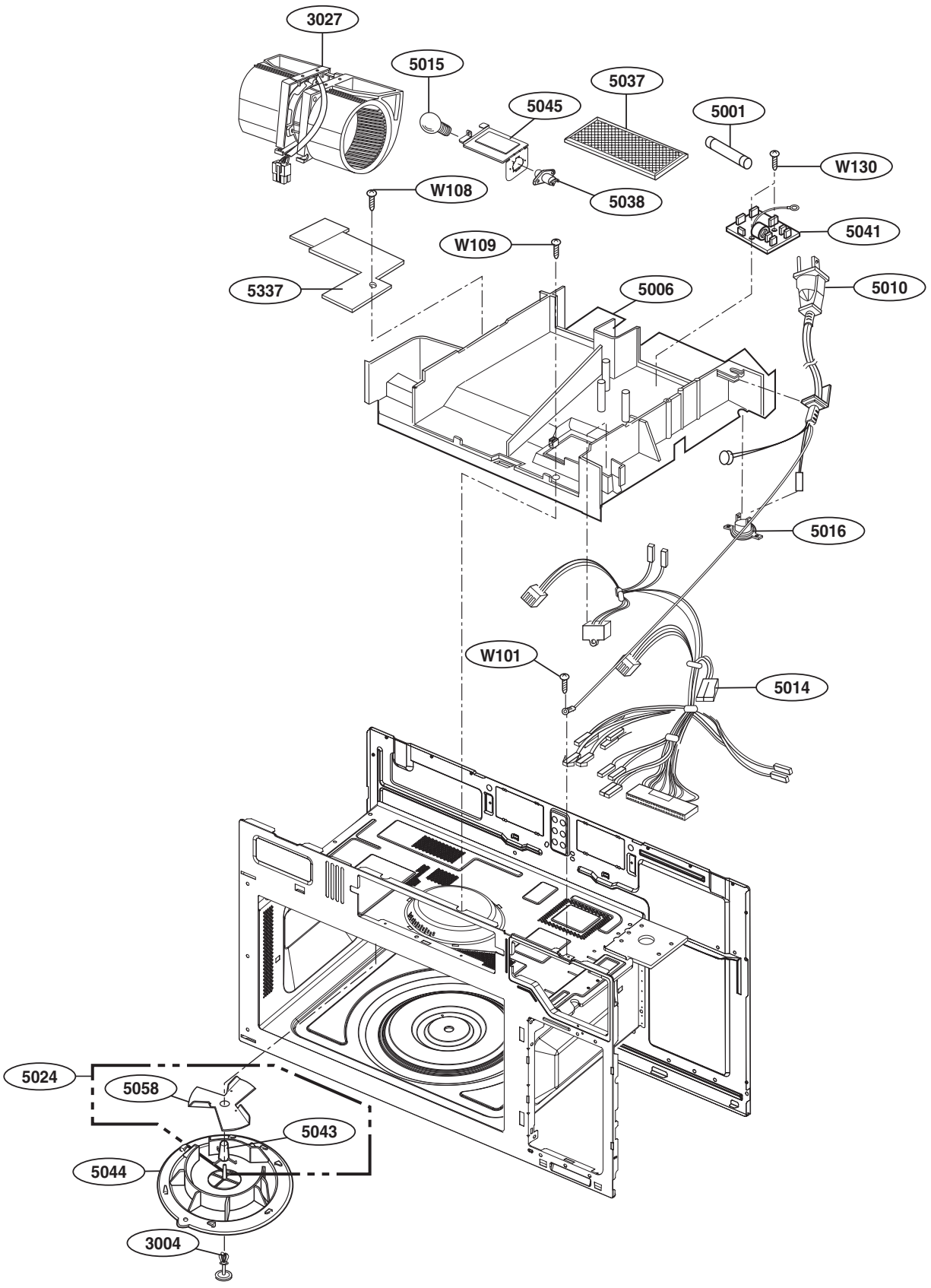
LATCH BOARD PARTS



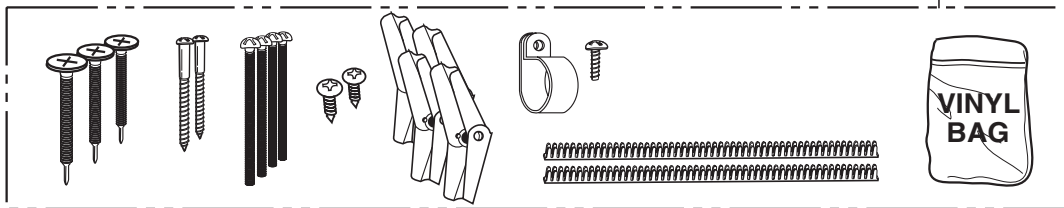
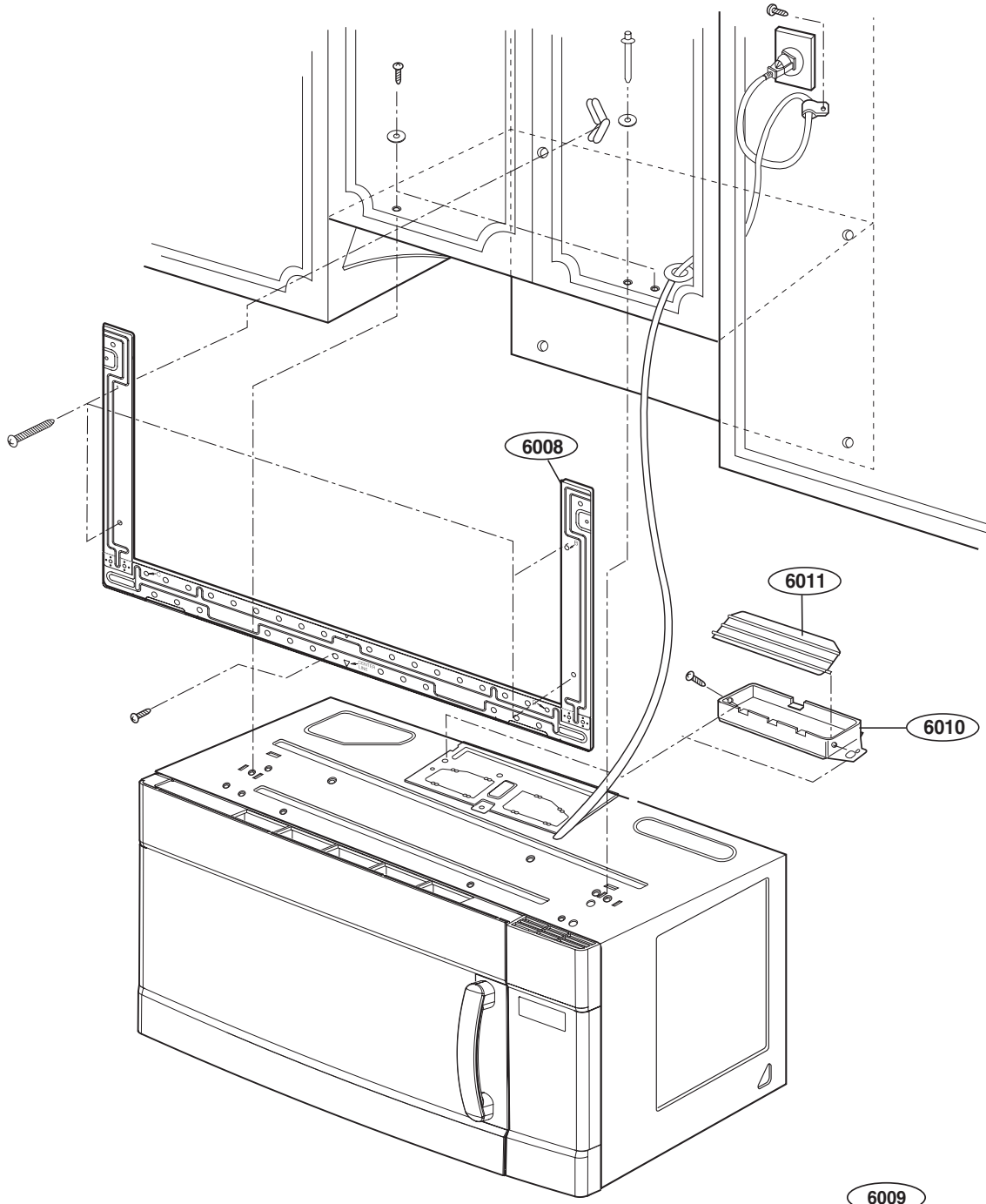
INTERIOR PARTS (I)



INTERIOR PARTS (II)



INSTALLATION PARTS



- OWNERS MANUAL — MFL1
- INSTALLATION MANUAL — MFL3
- COOKING GUIDE LABEL — MEZ1
- UPPER TEMPLATE — MBM4
- WALL TEMPLATE — MBM5

Part Reference list (1.6 Cuft)

For Model : 721.80032

Rev.1 Jun 18, 2007

Location No.	721.80032700	Part Name	SVC	Alternate
	PART NO			
*01	MFL39431001	Manual,Owners	R	
*02	MFL30502903	Manual,Service	R	
*04	MFL39433001	Manual,Installation	R	
*05	MEZ40037401	Label,Cooking Guide	R	
*06-1	4922W1A021E	Card,Template	R	
*06-2	4922W5A058A	Card,Template	R	
*07	MBM00607003	Card,Technical	R	
*10	3890W3Y925M	Box	R	
1000	3213W1A049G	Frame Assembly,Door	R	
1002	3536W1A012B	Tape,Sealing	R	
1003	MGC38915901	Panel,Door	R	
1004	3552W1A032E	Cover,Choke	R	
1005	ADC33688801	Door Assembly	R	
1006	4026W2A019C	Locker	R	4026W2A019A
1007	4970WRA001G	Spring	R	
1008	MKC39429001	Window,Glass	R	
1009	MEB38925701	Handle,Door	R	
2000	MFM39438701	Membrane	R	
2002	MGC38916001	Panel,Control	R	
2004	ACM33689601	Controller Assembly,Keypad	R	
2006	6871W1A497C	PCB Assembly,Sub	R	
2008	MAZ38922001	Bracket,Control Panel	R	
2018	0CZZW1M001C	Capacitor,Film,Box	R	
2381	AGM34653701	Parts Assembly(Control Panel+Key Pad)	R	
3001	3112W1F056T	Case,Flat	R	
3002	1B71961H	Tray,Glass	R	
3003	ABU33693602	Cavity Assembly,Coating	R	
3004	4051W3A001A	Connector Assembly	R	
3008	5889W2A012F	Turntable Assembly	R	
3009	6549W1S013K	Motor, AC Synchronous	R	
3010	4960W1A022A	Plate	R	
3011	4890W1A045A	Window,Glass	R	4890W4A001G
3012	4370W1A011A	Shaft,Turntable	R	
3024	MDX38927301	Grille,Vent	R	
3025	4810W1A150C	Bracket,Lamp	R	
3026	5230W1A012C	Filter,Grease	R	2B72705B
3026	5230W1A012C	Filter,Grease	R	5230W1A012A
3026	5230W1A012C	Filter,Grease	R	5230W1A012B
3027	6549W1V006W	Motor, AC Ventilation	R	
3028	6912W1Z004B	Lamp,Incandescent	R	6912W1Z002B
3029	4810W1A149A	Bracket,Mount	R	
3034	3052W1A002A	Cover,Resin	R	
3037	MJH38925501	Supporter	R	
4000	3500W1A028B	Holder,Locker	R	
4001	3501W1A019D	Holder Assembly,Locker	R	
4002	6600W1K001D	Switch,Micro	R	
4003	6600W1K001C	Switch,Micro	R	
4004	4510W3A012C	Lever	R	
5000	0CZZW1H004B	Capacitor,High Voltage	R	0CZZW1H004G
5000	0CZZW1H004B	Capacitor,High Voltage	R	0CZZW1H002H
5000	0CZZW1H004B	Capacitor,High Voltage	R	0CZZW1H001Q
5001	3B74133Q	Fuse,Time Delay	R	3B74133K
5002	4810W1A141A	Bracket,Capacitor	R	

Location No.	721.80032700	Part Name	SVC	Alternate
	PART NO			
5006	5208W0A006C	Duct	R	
5008	6170W1D052R	Transformer,high voltage	R	6170W1D052U
5009	2B71165R	Magnetron	R	
5010	6411W1A019M	Power Cord Assembly	R	
5014	6877W1A597V	Harness,Single	R	
5015	6912W1Z004A	Lamp,Incandescent	R	
5016	6930W1A003E	Thermostat	R	6930W3A001S
5016	6930W1A003E	Thermostat	R	EBG33435103
5018	6851W1A002B	Cable,Assembly	R	6021W3B001G
5018	6851W1A002B	Cable,Assembly	R	6021W3B001S
5024	5893W3A002D	Fan Assembly	R	5893W3A002C
5034	3300W1A046C	Plate,Bottom	R	
5035	3300W1A052B	Plate,Bottom	R	
5036	3550W3A095C	Cover,Lamp	R	
5037	5230W1A011C	Filter,Charcoal	R	2B72706D
5037	5230W1A011C	Filter,Charcoal	R	5230W1A011A
5037	5230W1A011C	Filter,Charcoal	R	5230W1A011B
5038	6620G00007A	Lamp Holder	R	
5039	MAZ37440501	Bracket	R	
5041	EAM35001801	Filter,AC Line	R	2B72130F
5043	4930W1A068A	Holder,Stirrer Fan	R	
5044	3550W1A126B	Cover,Stirrer Fan	R	3550W1A126A
5045	3550W1A189A	Cover,Lamp	R	
5058	5892W1A003A	Fan	R	
5067	4810W1A305B	Bracket,Thermostat	R	
5337	3740W1A011B	Supporter	R	
6000	3302W0A047M	Plate,Base	R	
6001	3303W1A072N	Plate Assembly,Base	R	
6008	3300W0A030A	Plate,Mount	R	
6009	3861W1A043C	Kit Assembly	R	
6010	4810W1A151A	Bracket,Idle	R	
6011	4900W1A001B	Damper	R	
W101	1SBF0402418	Screw,Taptite	R	
W102	4B70188C	Screw,Customized	R	
W105	1TPL0402418	Screw,Tapping	R	
W106	1TPL0402818	Screw,Tapping	R	
W108	1TTL0402418	Screw,Tapping	R	
W109	1TTL0402818	Screw,Tapping	R	
W118	1TTG0402422	Screw,Tapping	R	
W130	1TPL0402618	Screw,Tapping	R	
W138	1TTL0402822	Screw,Tapping	R	

Part Reference list (1.6 Cuft)

For Model : 721.80039

Rev.1 Jun 18, 2007

Location No.	721.80039700	Part Name	SVC	Alternate
	PART NO			
*01	MFL39431001	Manual,Owners	R	
*02	MFL30502903	Manual,Service	R	
*04	MFL39433001	Manual,Installation	R	
*05	MEZ40037401	Label,Cooking Guide	R	
*06-1	4922W1A021E	Card,Template	R	
*06-2	4922W5A058A	Card,Template	R	
*07	MBM00607003	Card,Technical	R	
*10	3890W3Y925N	Box	R	
1000	3213W1A049F	Frame Assembly,Door	R	3213W1A049J
1002	3536W1A012B	Tape,Sealing	R	
1003	MGC38915902	Panel,Door	R	
1004	3552W1A032E	Cover,Choke	R	3552W1A063A
1005	ADC33688802	Door Assembly	R	
1006	4026W2A019A	Locker	R	
1007	4970WRA001G	Spring	R	
1008	MKC39429002	Window,Glass	R	
1009	MEB38925702	Handle,Door	R	
2000	MFM39438702	Membrane	R	
2002	MGC38916002	Panel,Control	R	
2004	ACM33689602	Controller Assembly,Keypad	R	
2006	6871W1A497C	PCB Assembly,Sub	R	
2008	MAZ38922001	Bracket,Control Panel	R	
2018	0CZZW1M001C	Capacitor,Film,Box	R	
2381	AGM34653702	Parts Assembly(Control Panel+Key Pad)	R	
3001	3112W1F056S	Case,Flat	R	
3002	1B71961H	Tray,Glass	R	
3003	ABU33693602	Cavity Assembly,Coating	R	
3004	4051W3A001A	Connector Assembly	R	
3008	5889W2A012F	Turntable Assembly	R	
3009	6549W1S013K	Motor, AC Synchronous	R	
3010	4960W1A022A	Plate	R	
3011	4890W1A045A	Window,Glass	R	4890W4A001G
3012	4370W1A011A	Shaft,Turntable	R	
3024	MDX38927302	Grille,Vent	R	
3025	4810W1A150C	Bracket,Lamp	R	
3026	5230W1A012C	Filter,Grease	R	2B72705B
3026	5230W1A012C	Filter,Grease	R	5230W1A012A
3026	5230W1A012C	Filter,Grease	R	5230W1A012B
3027	6549W1V006W	Motor, AC Ventilation	R	
3028	6912W1Z004B	Lamp,Incandescent	R	6912W1Z002B
3029	4810W1A149A	Bracket,Mount	R	
3034	3052W1A002A	Cover,Resin	R	
3037	MJH38925501	Supporter	R	
4000	3500W1A028B	Holder,Locker	R	
4001	3501W1A019D	Holder Assembly,Locker	R	
4002	6600W1K001D	Switch,Micro	R	
4003	6600W1K001C	Switch,Micro	R	
4004	4510W3A012C	Lever	R	
5000	0CZZW1H004B	Capacitor,High Voltage	R	0CZZW1H004G
5000	0CZZW1H004B	Capacitor,High Voltage	R	0CZZW1H002H
5000	0CZZW1H004B	Capacitor,High Voltage	R	0CZZW1H001Q
5001	3B74133Q	Fuse,Time Delay	R	3B74133K
5002	4810W1A141A	Bracket,Capacitor	R	

Location No.	721.80039700	Part Name	SVC	Alternate
	PART NO			
5006	5208W0A006C	Duct	R	
5008	6170W1D052R	Transformer,high voltage	R	6170W1D052U
5009	2B71165R	Magnetron	R	
5010	6411W1A019M	Power Cord Assembly	R	
5014	6877W1A597V	Harness,Single	R	
5015	6912W1Z004A	Lamp,Incandescent	R	
5016	6930W1A003E	Thermostat	R	6930W3A001S
5016	6930W1A003E	Thermostat	R	EBG33435103
5018	6851W1A002B	Cable,Assembly	R	6021W3B001G
5018	6851W1A002B	Cable,Assembly	R	6021W3B001S
5024	5893W3A002D	Fan Assembly	R	5893W3A002C
5034	3300W1A046C	Plate,Bottom	R	
5035	3300W1A052B	Plate,Bottom	R	
5036	3550W3A095C	Cover,Lamp	R	
5037	5230W1A011C	Filter,Charcoal	R	2B72706D
5037	5230W1A011C	Filter,Charcoal	R	5230W1A011A
5037	5230W1A011C	Filter,Charcoal	R	5230W1A011B
5038	6620G00007A	Lamp Holder	R	
5039	MAZ37440501	Bracket	R	
5041	EAM35001801	Filter,AC Line	R	2B72130F
5043	4930W1A068A	Holder,Stirrer Fan	R	
5044	3550W1A126B	Cover,Stirrer Fan	R	3550W1A126A
5045	3550W1A189A	Cover,Lamp	R	
5058	5892W1A003A	Fan	R	
5067	4810W1A305B	Bracket,Thermostat	R	
5337	3740W1A011B	Supporter	R	
6000	3302W0A047M	Plate,Base	R	
6001	3303W1A072N	Plate Assembly,Base	R	
6008	3300W0A030A	Plate,Mount	R	
6009	3861W1A043C	Kit Assembly	R	
6010	4810W1A151A	Bracket,Idle	R	
6011	4900W1A001B	Damper	R	
W101	1SBF0402418	Screw,Taptite	R	
W102	4B70188C	Screw,Customized	R	
W105	1TPL0402418	Screw,Tapping	R	
W106	1TPL0402818	Screw,Tapping	R	
W108	1TTL0402418	Screw,Tapping	R	
W109	1TTL0402818	Screw,Tapping	R	
W118	1TTG0402422	Screw,Tapping	R	
W130	1TPL0402618	Screw,Tapping	R	
W142	1TTL0402816	Screw,Tapping	R	

Part Reference list (1.6 Cuft)

For Model : 721.80033

Rev.1 Jun 18, 2007

Location No.	721.80033700	Part Name	SVC	Alternate
	PART NO			
*01	MFL39431001	Manual,Owners	R	
*02	MFL30502903	Manual,Service	R	
*04	MFL39433001	Manual,Installation	R	
*05	MEZ40037401	Label,Cooking Guide	R	
*06-1	4922W1A021E	Card,Template	R	
*06-2	4922W5A058A	Card,Template	R	
*07	MBM00607003	Card,Technical	R	
*10	3890W3Y925P	Box	R	
1000	3213W1A049F	Frame Assembly,Door	R	3213W1A049J
1002	3536W1A012B	Tape,Sealing	R	
1004	3552W1A032E	Cover,Choke	R	3552W1A063A
1005	ADC33688804	Door Assembly	R	
1006	4026W2A019A	Locker	R	
1007	4970WRA001G	Spring	R	
1008	MKC39429002	Window,Glass	R	
1009	MEB38925704	Handle,Door	R	
1381	AGM34653801	Parts Assembly(Door Panel+Cover)	R	
2004	ACM33689603	Controller Assembly,Keypad	R	
2006	6871W1A497C	PCB Assembly,Sub	R	
2008	MAZ38922001	Bracket,Control Panel	R	
2018	0CZZW1M001C	Capacitor,Film,Box	R	
2381	ACM34112801	Controller Assembly,Sub	R	
3001	3112W1F056S	Case,Flat	R	
3002	1B71961H	Tray,Glass	R	
3003	ABU33693602	Cavity Assembly,Coating	R	
3004	4051W3A001A	Connector Assembly	R	
3008	5889W2A012F	Turntable Assembly	R	
3009	6549W1S013K	Motor, AC Synchronous	R	
3010	4960W1A022A	Plate	R	
3011	4890W1A045A	Window,Glass	R	4890W4A001G
3012	4370W1A011A	Shaft,Turntable	R	
3024	MDX38927302	Grille,Vent	R	
3025	4810W1A150C	Bracket,Lamp	R	
3026	5230W1A012C	Filter,Grease	R	2B72705B
3026	5230W1A012C	Filter,Grease	R	5230W1A012A
3026	5230W1A012C	Filter,Grease	R	5230W1A012B
3027	6549W1V006W	Motor, AC Ventilation	R	
3028	6912W1Z004B	Lamp,Incandescent	R	6912W1Z002B
3029	4810W1A149A	Bracket,Mount	R	
3034	3052W1A002A	Cover,Resin	R	
3037	MJH38925501	Supporter	R	
4000	3500W1A028B	Holder,Locker	R	
4001	3501W1A019D	Holder Assembly,Locker	R	
4002	6600W1K001D	Switch,Micro	R	
4003	6600W1K001C	Switch,Micro	R	
4004	4510W3A012C	Lever	R	
5000	0CZZW1H004B	Capacitor,High Voltage	R	0CZZW1H004G
5000	0CZZW1H004B	Capacitor,High Voltage	R	0CZZW1H002H
5000	0CZZW1H004B	Capacitor,High Voltage	R	0CZZW1H001Q
5001	3B74133Q	Fuse,Time Delay	R	3B74133K
5002	4810W1A141A	Bracket,Capacitor	R	
5006	5208W0A006C	Duct	R	
5008	6170W1D052R	Transformer,high voltage	R	6170W1D052U

Location No.	721.80033700	Part Name	SVC	Alternate
	PART NO			
5009	2B71165R	Magnetron	R	
5010	6411W1A019M	Power Cord Assembly	R	
5014	6877W1A597V	Harness,Single	R	
5015	6912W1Z004A	Lamp,Incandescent	R	
5016	6930W1A003E	Thermostat	R	6930W3A001S
5016	6930W1A003E	Thermostat	R	EBG33435103
5018	6851W1A002B	Cable,Assembly	R	6021W3B001G
5018	6851W1A002B	Cable,Assembly	R	6021W3B001S
5024	5893W3A002D	Fan Assembly	R	5893W3A002C
5034	3300W1A046C	Plate,Bottom	R	
5035	3300W1A052B	Plate,Bottom	R	
5036	3550W3A095C	Cover,Lamp	R	
5037	5230W1A011C	Filter,Charcoal	R	2B72706D
5037	5230W1A011C	Filter,Charcoal	R	5230W1A011A
5037	5230W1A011C	Filter,Charcoal	R	5230W1A011B
5038	6620G00007A	Lamp Holder	R	
5039	MAZ37440501	Bracket	R	
5041	EAM35001801	Filter,AC Line	R	2B72130F
5043	4930W1A068A	Holder,Stirrer Fan	R	
5044	3550W1A126B	Cover,Stirrer Fan	R	3550W1A126A
5045	3550W1A189A	Cover,Lamp	R	
5058	5892W1A003A	Fan	R	
5067	4810W1A305B	Bracket,Thermostat	R	
5337	3740W1A011B	Supporter	R	
6000	3302W0A047M	Plate,Base	R	
6001	3303W1A072N	Plate Assembly,Base	R	
6008	3300W0A030A	Plate,Mount	R	
6009	3861W1A043C	Kit Assembly	R	
6010	4810W1A151A	Bracket,Idle	R	
6011	4900W1A001B	Damper	R	
W101	1SBF0402418	Screw,Taptite	R	
W102	4B70188C	Screw,Customized	R	
W105	1TPL0402418	Screw,Tapping	R	
W106	1TPL0402818	Screw,Tapping	R	
W108	1TTL0402418	Screw,Tapping	R	
W109	1TTL0402818	Screw,Tapping	R	
W118	1TTG0402422	Screw,Tapping	R	
W130	1TPL0402618	Screw,Tapping	R	
W142	1TTL0402816	Screw,Tapping	R	

