



TECHNICAL SERVICE GUIDE

GE 0.9 cu. ft. Microwave Ovens

Model Numbers

JE925T

JE926TWH

JE926WOW

JES927TWH

JES927WOG



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PRODUCT DESCRIPTION

Explanation of Microwave Cooking

The GE Microwave Oven uses microwave energy to produce heat in the food to be cooked. Unlike conventional ovens microwave energy will cook foods without applying external heat.

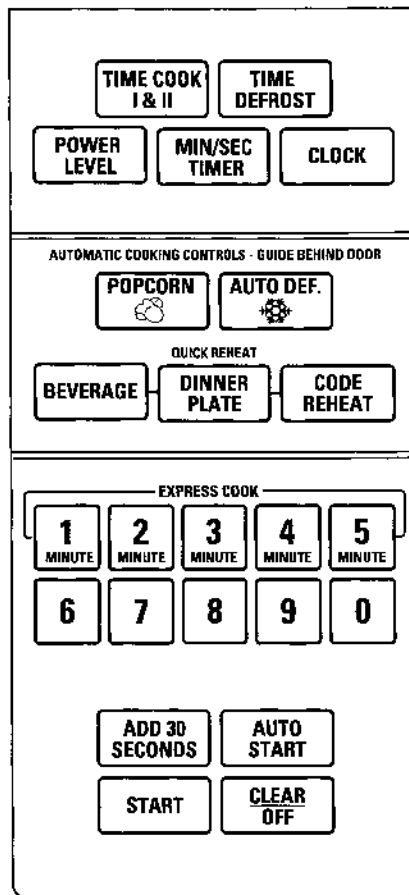
Microwaves are short electromagnetic waves of RF (radio frequency) energy, that pass through materials such as glass, paper, china and most plastics. Materials such as metal and aluminum foil tend to reflect microwaves and may be used only as recommended in the cooking instructions.

Materials with a high moisture content, like most foods, will absorb microwave energy. As the microwave energy enters the food, the food molecules align themselves with the microwave energy. Because the microwaves are changing polarity every half cycle, the food molecules are changing direction every half cycle or oscillating back and forth 4,900,000,000 times per second. This high speed oscillation causes friction between the molecules, thereby converting the microwave energy to heat.

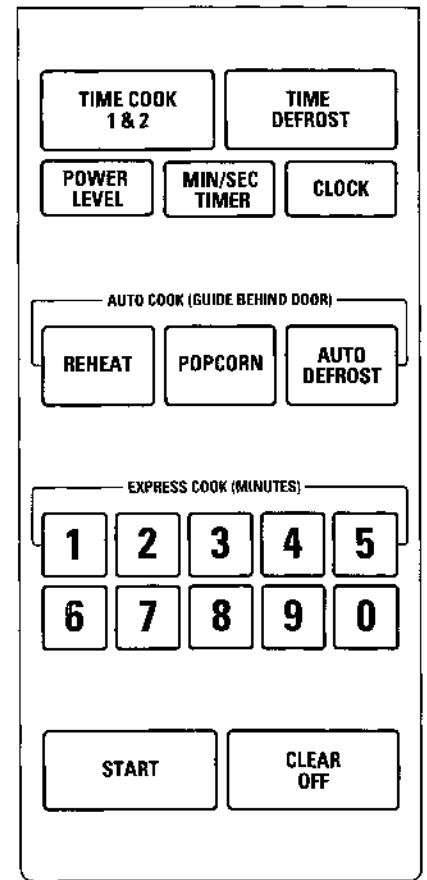
FEATURES	JE925T	JE926TWH	JES927TWH
TIME COOK I & II	•	•	•
TIME DEFROST	•	•	•
AUTO DEFROST	•	•	•
POWER LEVEL	•	•	•
MIN/SEC TIMER	•	•	•
CLOCK PAD	•	•	•
POPCORN (S=SENS T=TIMED)	T	T	T
QUICK REHEAT: BEVERAGE, DINNER, CODE	•	•	
REHEAT			•
NUMBER PADS	•	•	•
ADD 30 SECONDS	•	•	
START	•	•	•
AUTO START	•	•	
CLEAR/OFF	•	•	•
OVEN CAVITY LIGHT	•	•	•
CLOCK	•	•	•
WARRANTY (CARRY IN)	1 YR	1 YR	1 YR
WARRANTY ON MAG-PART ONLY	10 YR	10 YR	10 YR
LINE CURRENT	12	12	12
LINE WATTS	1350	1350	1350
MAG POWER (IEC-705)	800 W	800 W	800 W
TOUCH CONTROL SYSTEM	•	•	•
CLOCK 1:00-12:59	•	•	•
TIMER (0-99 MIN 99 SEC)	•	•	•
CAVITY DIMENSIONS (WxHxD)	← 13-3/4" x 7-3/4" x 14-1/2" →		
CASE DIMENSIONS (WxHxD)	← 20-1/2" x 11-5/8" x 15-1/4" →		
NET WEIGHT	← 32 lbs. →		



JE925T



JE926TWH



JE927TWH

JE926TWH (WOW indicates white on white model)

JE927TWH (WOG indicates white on gray model, gray control panel)

OPERATION

DESCRIPTION OF OPERATING SEQUENCE

The following is a description of component functions during oven operation.

OFF CONDITION

Closing the door activates the door sensing and secondary interlock switches. (In this condition, the monitor switch contacts are opened.)

When oven is plugged in, 120 volts A.C. is supplied to the smart board.

1. The display panel lights up for 15 seconds then "RESET" appears. Touch the CLOCK pad to set the clock and the oven is ready for use.

If power is disrupted at any time, the above sequence recurs, and you must reset the clock after touching the CLEAR/OFF pad.

COOKING CONDITION

When the START pad is touched the following occurs:

1. Relay contacts are closed and the following components are turned on:
RY-1 oven lamp/fan motor/turntable motor
RY-2 power transformer
2. 120 volts A.C. is supplied to the primary winding of the power transformer and is converted to about 3.1 volts A.C. output on the filament winding, and approximately 2080 volts A.C. on the high voltage winding.
3. The filament winding voltage heats the magnetron filament and the H.V. is sent to a voltage doubler circuit.
4. The microwave energy produced by the magnetron is channeled through the wave guide into the cavity feedbox, and then into the cavity where the food is to be cooked.
5. Upon completion of the cooking time, the power transformer, oven lamp, etc. are turned off and the generation of microwave energy is stopped. The oven will revert to the OFF condition.
6. When the door is opened during a cook cycle, the monitor switch, door sensing switch, secondary interlock switch and primary interlock relay are activated with the following results: The circuits to the cooling fan motor and the high voltage components are de-energized, the oven lamp remains on and the digital readout displays the time remaining in the cook cycle when the door was opened.
7. The monitor switch electrically monitors the operation of the secondary interlock switch and the primary interlock relay and is mechanically associated with the door so that it will function in the following sequence:
 - (1) When the door opens, the secondary interlock switch, primary interlock relay and secondary interlock switch open their contacts, then the monitor switch contacts close.



- (2) When the door is closed the monitor switch contacts open, and the contacts of the secondary interlock switch and primary interlock relay close.

If the secondary interlock switch and primary interlock relay fail (contacts closed) when the door is opened, the closing of the monitor switch contacts will form a short circuit through the monitor fuse, secondary interlock switch and primary interlock relay, causing the monitor fuse to blow.

POWER LEVEL 0 TO 9 COOKING

When Variable Cooking Power is programmed, 120 volts A.C. is supplied to the power transformer intermittently through the contacts of relay (RY-2) which is operated by the control unit within a 32 second time base. Microwave power operation is as follows:



VARI-MODE	ON TIME	OFF TIME
Power 10 (HIGH) (100% power)	32 sec.	0 sec.
Power 9 (approx. 90% power)	30 sec.	2 sec.
Power 8 (approx. 80% power)	26 sec.	6 sec.
Power 7 (approx. 70% power)	24 sec.	8 sec.
Power 6 (approx. 60% power)	22 sec.	10 sec.
Power 5 (approx. 50% power)	18 sec.	14 sec.
Power 4 (approx. 40% power)	16 sec.	16 sec.
Power 3 (approx. 30% power)	12 sec.	20 sec.
Power 2 (approx. 20% power)	8 sec.	24 sec.
Power 1 (approx. 10% power)	6 sec.	26 sec.
Power 0 (0% power)	0 sec.	32 sec.

NOTE: The ON/OFF time ratio does not correspond with the percentage of microwave power, because approximately 2 seconds are needed for heating of the magnetron filament.

QUICK REHEAT

Consists of three programs:

- Dinner plate program for reheating a plate of leftovers.
- Beverage program for reheating liquid beverages.
- Code Reheat program for reheating leftovers using a code number from 1 to 6 (see guide).

To Use QUICK REHEAT

Dinner Plate:

1. Touch DINNER PLATE pad.
2. Touch START pad.

NOTE: Oven will signal and display remaining time counting down shortly before shut off on all Quick Reheat Programs.

Beverage:

1. Touch BEVERAGE pad.
2. Touch START pad.

Code Reheat:

1. Touch CODE REHEAT.
2. Touch a number pad from 1-6 to select a food group (see Code Reheat Guide).
3. Touch START pad.

CODE REHEAT GUIDE

Code	Display Code	Time/Serv (T1)	Description
1	bREAD	:20	Breads, pastries, pies, bakery goods
2	MEATS	1:00	Meats, casseroles, pizza, solids
3	VEGS	1:00	Fruits and vegetables
4	bEV	1:15	Beverages
5	SAUCE	2:30	Soups, stews, sauces
6	PLATE	3:45	2 to 3 foods; 4 oz. each

To Reheat More Than One Serving

Quick Reheat codes 1 through 5 and Beverage will allow you to heat up to three servings. To add more than one serving, just touch number pad 2 or 3 right before touching START pad. The word "SERV" and a number will be displayed to show how many servings are selected.

The serving size may be changed or added after touching START. Just touch number pad 2 or 3. "SERV" and a number will be displayed briefly to show that serving size has been changed.

POPCORN

This features works best with 3.0 to 3.7 ounces of prepackaged microwave popcorn.

TO USE POPCORN:

Regular Microwave Popcorn

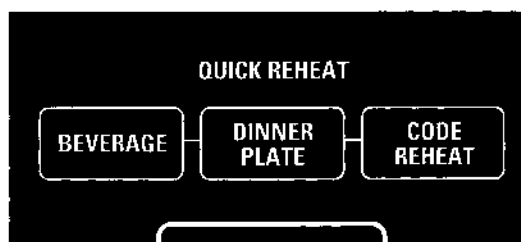
1. Touch POPCORN pad.
2. Touch START pad.

Oven will signal and display remaining time counting down shortly before shut off.

Lite Microwave Popcorn

1. Touch POPCORN pad.
2. Touch number pad 2.
3. Touch START pad.

NOTE: The cooking time can be increased or decreased by 20 seconds.



To Increase Time

1. Touch the POPCORN pad (plus 1 for regular and 2 for lite).
2. Touch number 9.

A plus sign indicates 20 seconds is added to cooking time.

To Decrease Time

1. Touch the POPCORN pad (plus 1 for regular and 2 for lite).
2. Touch number 1.

A minus sign indicates 20 seconds less cooking time is being provided.

Code	Display	Power	T1	T2	Total		
1	REG	100%	-	1:30	:0	-	1:30
			N	1:30	:20		1:50
			+	1:30	:40	+	2:10
2	LITE	100%	-	1:35	:0	-	1:35
			N	1:35	:20		1:55
			+	1:35	:40	+	2:15



AUTO DEFROST

With the AUTO DEFROST feature the oven automatically sets defrosting time and power levels by using the weight of the food in pounds and tenths of pounds.

If weight of food is stated in pounds AND ounces, the ounces must be converted to tenths (.1) of a pound. The conversion guide is as follows:

OUNCES	POUNDS	OUNCES	POUNDS
1-2	.1	9-10	.6
3	.2	11	.7
4-5	.3	12-13	.8
6-7	.4	14-15	.9
8	.5		



To use AUTO DEFROST:

1. Touch AUTO DEFROST.
2. Enter food weight, (1-1/2 lbs. is 15)
3. Touch START.

Twice during defrosting, the oven will “beep” and the display will flash “TURn”. Follow the directions in the Auto Defrost Guide for what to do at the first and second signal, then close door and touch start. Defrosting will continue during the “TURn” display.

EXPRESS COOK

This feature is used to set the timer and cook for 1-5 minutes.

How to Use Express Cook:

1. Touch a number (1-5) for cooking time (Ex. 2 for two minutes).
2. Touch the START pad.

The oven will automatically signal, flash “END” and shut off at the end of the programmed time.

DESCRIPTION AND FUNCTION OF COMPONENTS

OUTER CASE REMOVAL

To remove outer case, proceed as follows:

1. Disconnect oven from power supply.
2. Remove 6 screws from rear and along the right bottom side edge of case.
3. Slide the entire case back about 1 inch (3 cm) to free it from retaining clips on the cavity faceplate.
4. Lift entire case from the unit.

CAUTION: DISCHARGE HIGH VOLTAGE CAPACITOR BEFORE TOUCHING ANY OVEN COMPONENTS OR WIRING.

TOUCH CONTROL PANEL ASSEMBLY TEST

The touch control panel assembly is divided into two units, Key Panel and Smart Board, and troubleshooting by unit replacement is described according to the symptoms indicated.

1. Key Panel.

The following symptoms indicate a defective key panel:

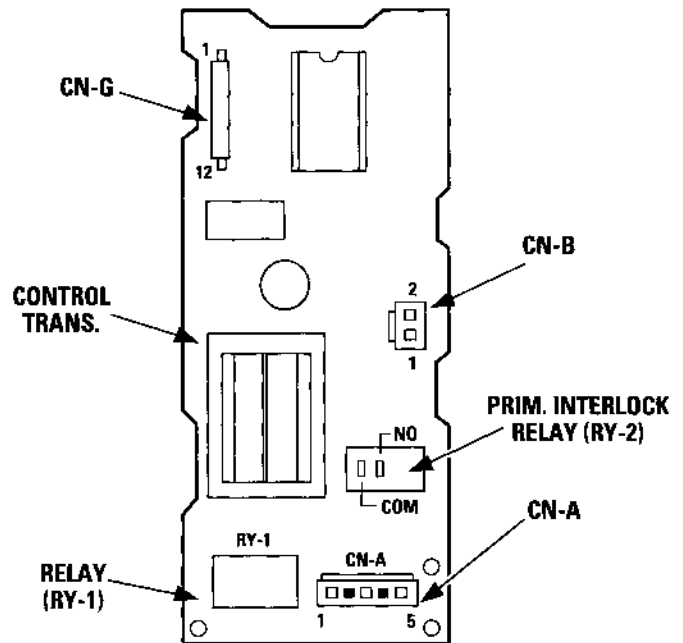
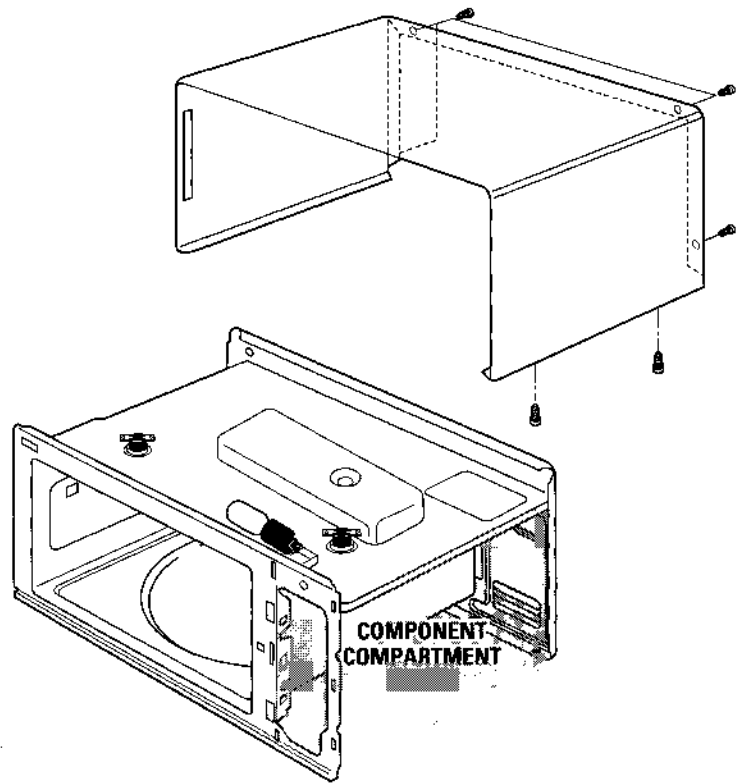
- a) When touching the pads, a certain pad produces no signal at all.
- b) When touching a number pad, two figures or more are displayed.
- c) When touching the pads, sometimes a pad produces no signal.

NOTE: If necessary key panel can be checked with ohmmeter.

2. Smart Board

The following symptoms indicate a defective smart board:

- 2-1 In connection with pads
 - a) When touching the pads, a certain group of pads do not produce a signal.
 - b) When touching the pads, no pads produce a signal.
- 2-2 In connection with indicators
 - a) At a certain digit, all or some segments do not light up.
 - b) At a certain digit, brightness is low.
 - c) Only one indicator does not light.
 - d) The corresponding segments of all digits do not light up; or they continue to light up.
 - e) Wrong figure appears.
 - f) A certain group of indicators do not light up.
 - g) The figure of all digits flicker.
- 2-3 Other possible problems caused by defective smart board
 - a) Buzzer does not sound or continues to sound.
 - b) Clock does not operate properly.
 - c) Cooking is not possible.
 - d) Proper temperature measurement is not obtained.



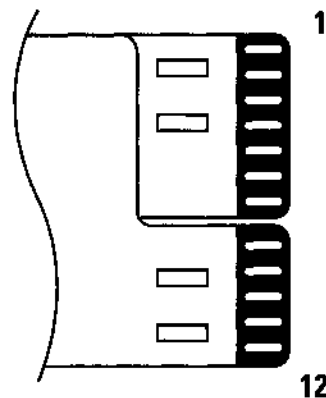
SMART BOARD

TO REPLACE KEY PANEL

Key Panel and Control Trim will be replaced as a complete assembly.

KEY PANEL TEST

1. If necessary the key panel pads can be verified by a continuity test. For ease of handling, the key should be removed and placed on a flat surface. Check continuity between pad connections at end of ribbon. (Use high Ω scale).



Pad	Connectors
TIME COOK I & II	4-9
TIME DEFROST	5-10
AUTO DEFROST	4-10
POPCORN	2-9
CODE REHEAT/REHEAT	4-12
BEVERAGE	2-10*
DINNER PLATE	2-11*
ADD 30 SECONDS	2-12*
POWER LEVEL	4-11
MIN/SEC TIMER	6-11
CLOCK	6-12
1	6-9
2	6-10
3	7-9
4	7-10
5	7-11
6	7-12
7	8-9
8	8-10
9	8-11
0	8-12
AUTO START	3-12*
CLEAR/OFF	5-12
START	5-9

*Not available on JES927TWH

RELAY TEST

Remove the outer case and check voltage between Pin Nos. 3 and 5 of the 3 pin connector (A) on the control unit with an A.C. voltmeter.

The meter should indicate 120 volts, if not check oven circuit.

RY1 and RY2 Relay Test

These relays are operated by D.C. voltage.

Check voltage at the relay coil with a D.C. voltmeter during the microwave cooking operation.

D.C. voltage indicated – defective relay.

D.C. voltage not indicated – check diode which is connected to the relay coil. If diode is good, smart board is defective.

Relay Symbol	Operation Voltage	Connected Components
RY1	Appx. 26.5 V.D.C.	Oven lamp/Turntable motor/ Cooling fan motor
RY2	Appx. 25.7 V.D.C.	Power transformer

CONTROL PANEL ASSEMBLY REMOVAL

1. Disconnect oven from power supply and remove outer case.
2. Discharge high voltage capacitor.
3. Disconnect wire leads from panel components.
4. Remove one (1) screw holding panel assembly to oven flange.
5. Lift up the control panel assembly and pull it forward.

DOOR OPENER

The door is opened by pushing the button on the control panel which raises the switch lever and the latch head from the latch hook, releasing the door.

OVEN LAMP

The Oven Light Assembly is located above the switch bracket on top of the oven. To replace the lamp the outer case must be removed and the light unscrewed.

POWER TRANSFORMER TEST

DISCHARGE THE HIGH VOLTAGE CAPACITOR BEFORE TOUCHING ANY OVEN COMPONENTS OR WIRING.

Disconnect the primary input terminals and measure the resistance of the transformer with an ohmmeter. Check for continuity of the coils with an ohmmeter. On the Rx 1 scale, the resistance of the primary coil should be less than 1 ohm and the resistance of the high voltage coil should be approximately 120 ohms; the resistance of the filament coil should be less than 1 ohm.

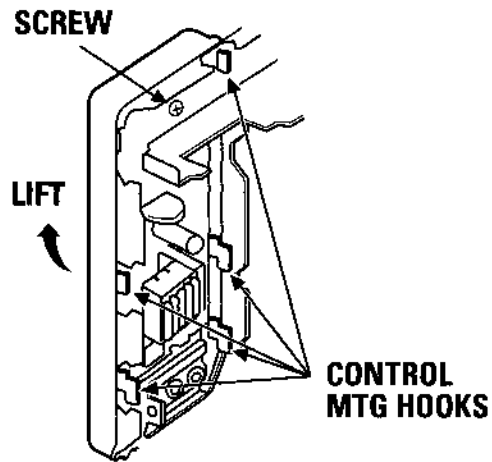
(HIGH VOLTAGES ARE PRESENT AT THE HIGH VOLTAGE TERMINAL, SO DO NOT ATTEMPT TO MEASURE THE FILAMENT AND HIGH VOLTAGE.)

POWER TRANSFORMER REMOVAL

1. Disconnect oven from power supply and remove outer case.
2. Discharge high voltage capacitor.
3. Disconnect transformer leads from magnetron and capacitor that connect to transformer.
4. Remove four (4) screws from bottom side holding transformer to base plate.
7. Remove transformer.

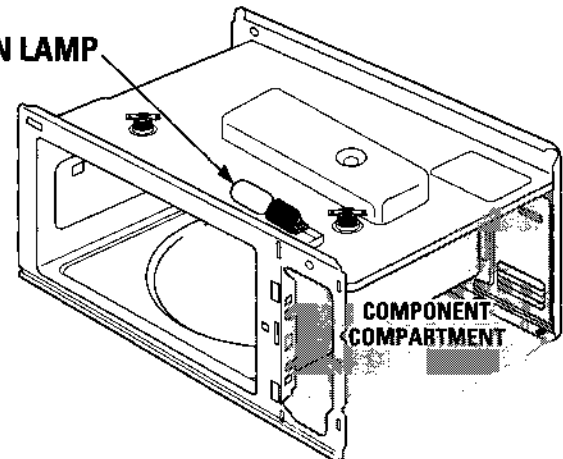
Re-install

1. Rest transformer on base plate with its primary terminals toward oven faceplate.
2. Insert transformer into metal tray on base plate.
3. Make sure transformer is mounted over screw holes.
4. After re-installing transformer, secure transformer with four (4) screws from bottom side to base plate.
5. Re-connect wire leads (primary and high voltage) to transformer and filament leads of transformer to magnetron and high voltage capacitor.
6. Re-install outer case and check that oven is operating properly.



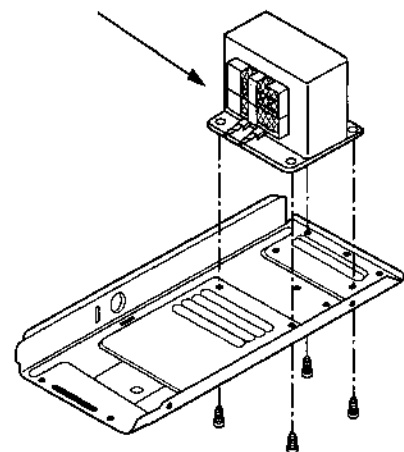
DISCHARGE
CAPACITOR

OVEN LAMP



DISCHARGE
CAPACITOR

TRANSFORMER



HIGH VOLTAGE RECTIFIER TEST

DISCHARGE THE HIGH VOLTAGE CAPACITOR BEFORE TOUCHING ANY OVEN COMPONENTS OR WIRING.

Isolate the rectifier from the circuit. Using the highest ohm scale of the meter, read the resistance across the terminals and observe, reverse the leads to the rectifier terminals and observe meter reading. If a short is indicated in both directions, or if an infinite resistance is read in both directions, the rectifier is probably defective and should be replaced.

HIGH VOLTAGE CAPACITOR TEST

DISCHARGE THE HIGH VOLTAGE CAPACITOR BEFORE TOUCHING ANY OVEN COMPONENTS OR WIRING.

If the capacitor is open, no high voltage will be available to the magnetron. Disconnect input leads and check for short or open between the terminal using an ohmmeter.

Checking with a high ohm scale, if the high voltage capacitor is normal, the meter will indicate continuity for a short time and should indicate an open circuit once the capacitor is charged. If the above is not the case, check the capacitor with an ohmmeter to see if it is shorted between either of the terminals and case.

If it is shorted, replace the capacitor.

RECTIFIER ASSEMBLY AND HIGH VOLTAGE CAPACITOR REMOVAL

1. Disconnect oven from power supply and remove outer case.
2. Discharge high voltage capacitor.
3. Remove one (1) screw holding capacitor holder to oven cavity rear plate.
4. Disconnect terminal of rectifier from capacitor holder.
5. Remove screw holding rectifier to capacitor holder.

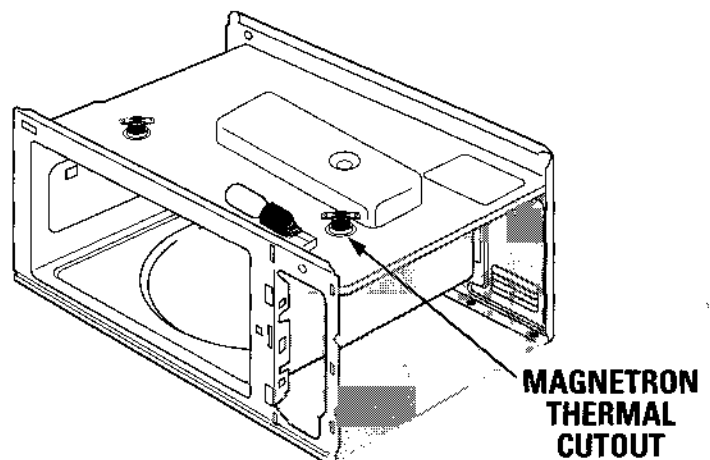
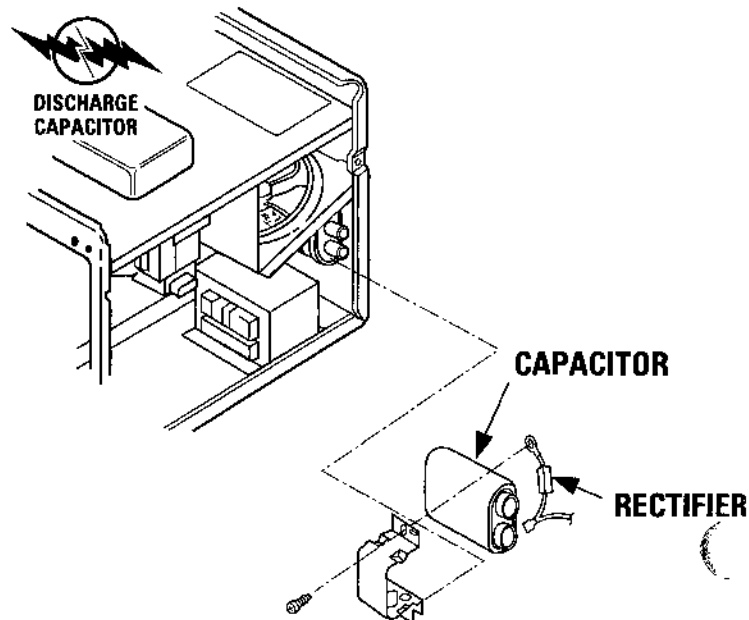
CAUTION: WHEN REPLACING H.V. RECTIFIER AND HIGH VOLTAGE CAPACITOR, GROUND SIDE TERMINAL OF H.V. RECTIFIER MUST BE SECURED FIRMLY WITH A GROUNDING SCREW AND WASHER.

MAGNETRON THERMAL CUTOUT

The magnetron thermal cutout located in front of the wave guide is designed to prevent damage to the magnetron if an over heated condition develops in the tube due to cooling fan failure, obstructed air ducts, dirty or blocked air intake.

Under normal operation, the magnetron thermal cutout remains closed. However, when abnormally high temperatures are reached within the magnetron, the magnetron thermal cutout will open at 293°F (145°C) causing the oven to shut down.

NOTE: Magnetron thermal cutout is non-resettable.



OVEN THERMAL CUTOUT

The thermal cutout, located on the top of the component compartment, is designed to prevent damage to the unit if the foods in the oven catch fire due to overheating caused by improper setting of cook time or failure of control unit.

Under normal operation, the oven thermal cutout remains closed. However, when abnormally high temperatures are reached within the oven cavity, the oven thermal cutout will open at 293°F (145°C), causing the oven to shut down.

NOTE: Oven thermal cutout is non-resettable

MAGNETRON FAN MOTOR

The magnetron fan motor drives a blade which draws in cool external air. This cool air is directed through the air vanes surrounding the magnetron and cools the magnetron assembly. This air is channeled through the oven cavity to remove steam and vapors given off from the heating foods. It is then exhausted through the exhausting air vents at the oven cavity.

MAGNETRON FAN MOTOR ASSEMBLY REMOVAL

1. Disconnect oven from power supply and remove outer case.
2. Discharge high voltage capacitor.
3. Disconnect the wire leads from the fan motor (**Positive lock connectors – see illustration**) and disconnect the wire leads to the magnetron.
4. Remove 2 screws from rear of oven holding fan bracket and 1 screw at top of bracket.
5. Remove fan motor and bracket.
6. Remove fan blade and 2 screws holding fan motor to bracket.
7. Replace motor and reassemble.

COMPONENT TEST

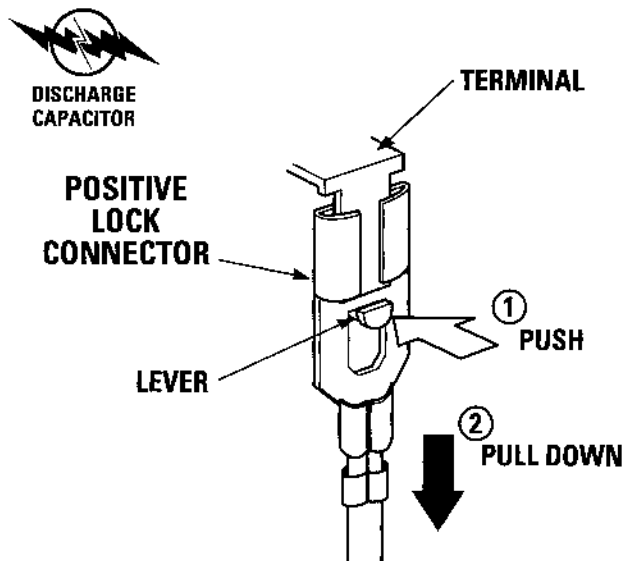
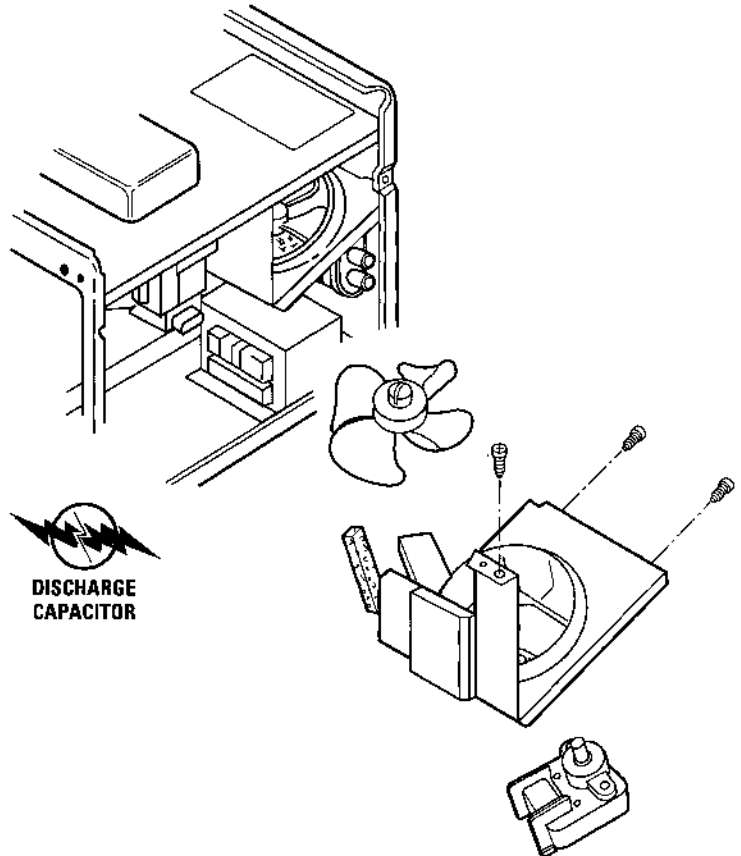
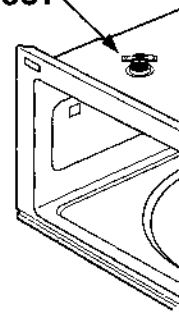
MAGNETRON ASSEMBLY TEST

High voltages are present during the cook cycle, so extreme caution should be observed. Disconnect oven from power supply and discharge the high voltage capacitor before touching any oven components or wiring.

To test for an open filament, isolate the magnetron from the high voltage circuit. A continuity check across the magnetron filament leads should indicate less than 1 ohm.

To test for a shorted magnetron, connect the ohmmeter leads between the magnetron filament leads and chassis ground. This test should indicate an infinite resistance. If there is a little resistance the magnetron is grounded and must be replaced. Power output of the magnetron can be measured by performing a water temperature rise test. This test should only be used if above tests do not indicate a faulty magnetron and there is no defect in the following components or wiring: Silicon rectifier, high voltage capacitor and power transformer.

OVEN THERMAL CUTOUT



MAGNETRON REMOVAL

1. Disconnect oven from power supply and remove outer case.
2. Discharge high voltage capacitor and remove magnetron leads.
3. Remove one (1) screw holding the air guide to the side of magnetron and one screw holding air guide to the top of the component compartment. (Remove air guide)
4. Carefully loosen and remove four (4) screws holding magnetron to waveguide. Do not allow magnetron to fall.
5. Remove one screw holding rear magnetron angle to back of magnetron. Transfer this magnetron angle to new magnetron before reassembly.

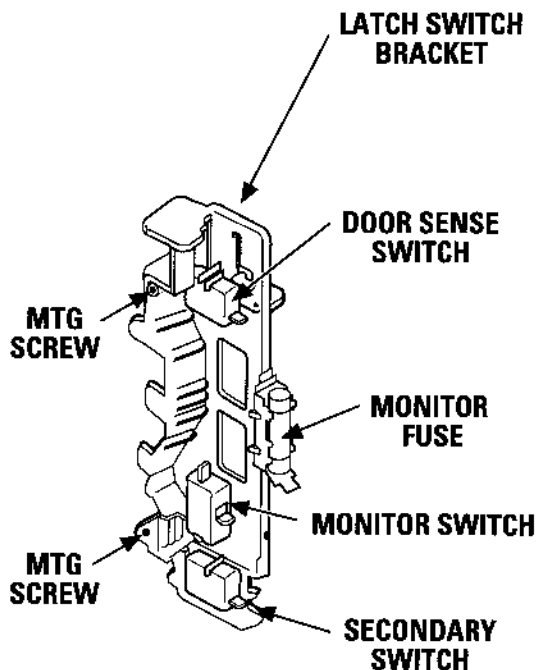
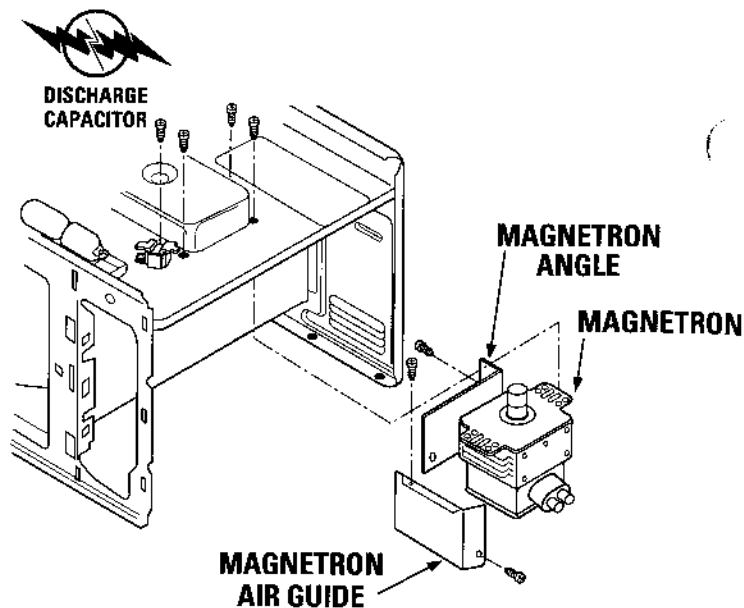
Re-install

1. Install air guide to new magnetron.
2. Re-install magnetron to waveguide.
3. Re-install side air guide.
4. Reconnect wire leads.

CAUTION: WHEN REPLACING THE MAGNETRON, BE SURE THE R.F. GASKET IS IN PLACE AND MOUNTING SCREWS ARE TIGHTENED SECURELY.

DOOR SENSING AND SECONDARY INTERLOCK SWITCHES

The secondary interlock switch is mounted in the lower position of the latch switch bracket and the door sensing switch in the primary interlock system is mounted in the upper position of latch switch bracket. They are activated by the latch heads on the door. When the door is opened, the switches interrupt the circuit to all components, except the oven lamp. A cook cycle cannot take place until the door is firmly closed thereby activating both interlock switches. The primary interlock system consists of the door sensing switch and primary interlock relay located on the control circuit board.



PRIMARY INTERLOCK SYSTEM TEST

Door Sensing Switch

Isolate the switch and connect the ohmmeter to the common (COM.) and normally open (NO) terminal of the switch, the meter should indicate an open circuit with the door open and a closed circuit with the door closed. If improper operation is indicated, replace the door sensing switch.

Primary Interlock Relay (RY2)

Disconnect two (2) wire leads from the male tab terminals on the printed wiring circuit board provided in the control panel assembly. The tab terminals are located in the left area of the circuit board on the component side, and are connected to the contacts of the primary interlock relay. Check the state of the relay contacts using an ohmmeter. The relay contacts should be open. If the relay contacts are closed, replace the circuit board entirely.

Secondary Interlock Switch Test

Isolate the switch and connect the ohmmeter to the common (COM.) and normally open (NO) terminal of the switch. The meter should indicate an open circuit with the door open and a closed circuit with the door closed. If improper operation is indicated, replace the secondary interlock switch.

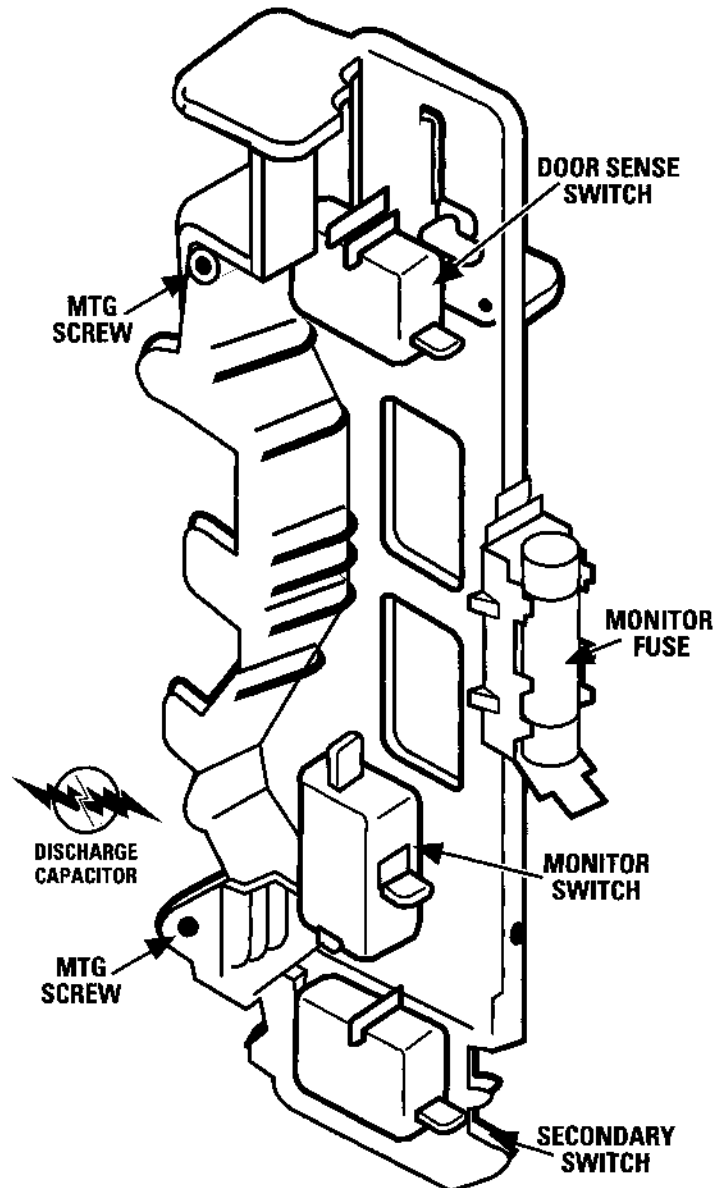
DOOR SENSING, SECONDARY INTERLOCK AND MONITOR SWITCH REMOVAL

1. Disconnect oven from power supply and remove outer case.
2. Discharge high voltage capacitor.
3. Disconnect wire leads from the switches.
4. Remove two (2) screws holding latch switch bracket to component compartment front flange.
5. Remove latch switch bracket assembly.
6. Push outward on the two (2) retaining tabs holding switch in place.
7. Switch is now free.

At this time switch lever will be free, do not lose it.

Re-install

1. Re-install the interlock switch. The secondary interlock/monitor switches are in the lower position and the door sensing switch is in the upper position.
2. Re-connect wire leads to each switch. Refer to pictorial diagram.
3. Secure latch switch bracket (with two (2) mounting screws) to component compartment front flange.
4. Make sure that the monitor switch is operating properly.



DOOR SENSING, SECONDARY INTERLOCK AND MONITOR SWITCH ADJUSTMENT

If the door sensing switch, secondary interlock switch and monitor switch do not operate properly due to a misadjustment, the following adjustment should be made:

1. Loosen the two (2) screws holding latch switch bracket to the component compartment front flange.
2. With door closed, adjust latch switch bracket by moving it back and forth, and up and down. In and out play of the door allowed by the upper and lower position of the latch switch bracket should be less than 0.5mm (.02" **ABOUT THE THICKNESS OF A FINGERNAIL**). The vertical position of the latch switch bracket should be placed where the door sensing switch and secondary interlock switch have activated with the door closed.
3. Firmly secure the screws with washers.
4. Check the door sensing switch operation. If the door sensing switch has not activated with the door closed, loosen screw and adjust the latch switch bracket position.

After adjustment, check the following.

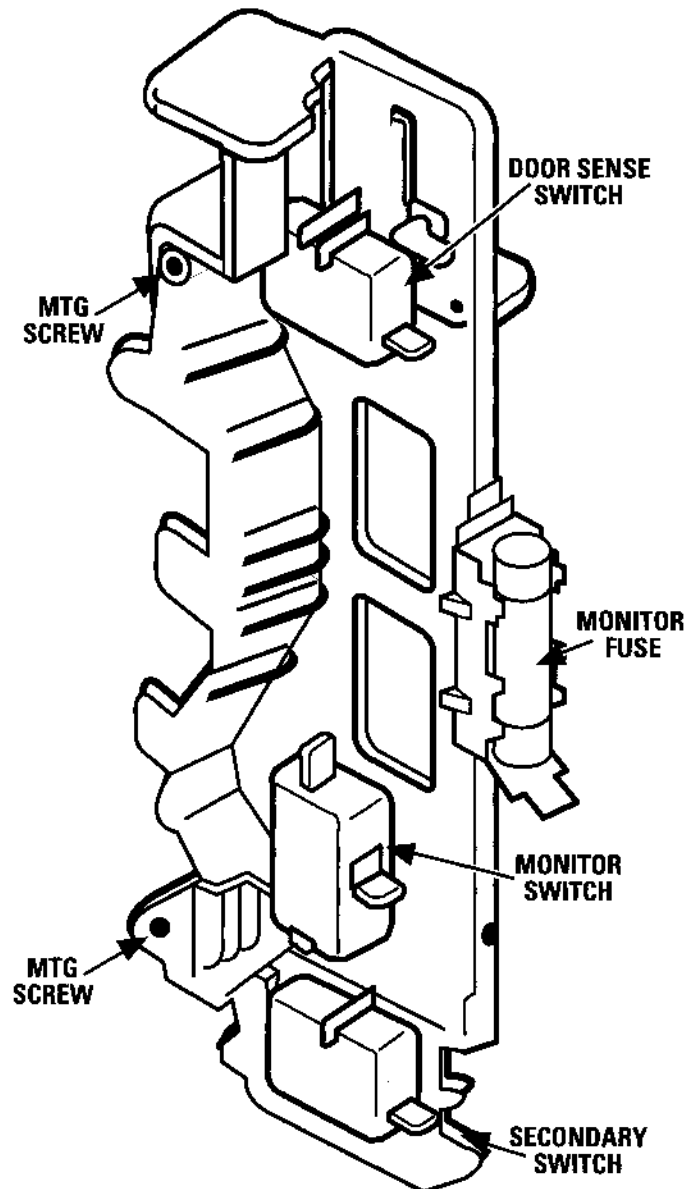
1. In and out play of door remains less than 0.5mm (.02") when latched position. First check upper position of latch switch bracket, pushing and pulling upper portion of door toward the oven face. Then check lower portion of the latch switch bracket, pushing and pulling lower portion of the door toward the oven face. Both results (movement of the door) should be less than 0.5mm (.02").
2. The door sensing switch and secondary interlock switch interrupt the circuit before the door can be opened.
3. Monitor switch contacts close when door is opened.
4. Re-install outer case and check for microwave leakage around door with an approved microwave survey meter.

MONITOR SWITCH

The monitor switch is activated (the contacts opened) by the latch head on the door while the door is closed. The switch is intended to render the oven inoperative by means of blowing the monitor fuse when the contacts of the primary interlock relay and secondary interlock switch fail to open when the door is opened.

Functions:

1. When the door is opened, the monitor switch contact closes (to the ON condition). At this time the primary interlock relay and secondary interlock switch are in the OFF condition (contacts open).
2. As the door goes to a closed position, the monitor switch contacts are first opened and then the door sensing switch and the secondary



interlock switch contacts close. (On opening the door, each of these switches operate inversely.)

3. If the door is opened, and the primary interlock relay and secondary interlock switch contacts fail to open, the monitor fuse blows simultaneously with closing of the monitor switch contacts.

CAUTION: Before replacing a blown monitor fuse, test the primary interlock relay, door sensing switch, monitor switch and secondary interlock switch for proper operation.

MONITOR SWITCH TEST

Disconnect the oven from power supply. Before performing this test, make sure that the secondary interlock switch and the primary interlock relay are operating properly. Disconnect the wire lead from the monitor switch (NC) terminal. Check the monitor switch operation by using the ohmmeter as follows:

When the door is open, the meter should indicate a closed circuit. When the monitor switch actuator is pushed by a screwdriver through the lower latch hole on the front plate of the oven cavity with the door opened (in this condition the plunger of the monitor switch is pushed in), the meter should indicate an open circuit. If improper operation is indicated, the switch may be defective.

After testing the monitor switch, re-connect the wire lead to the monitor switch (NC) terminal.

BLOWN MONITOR FUSE

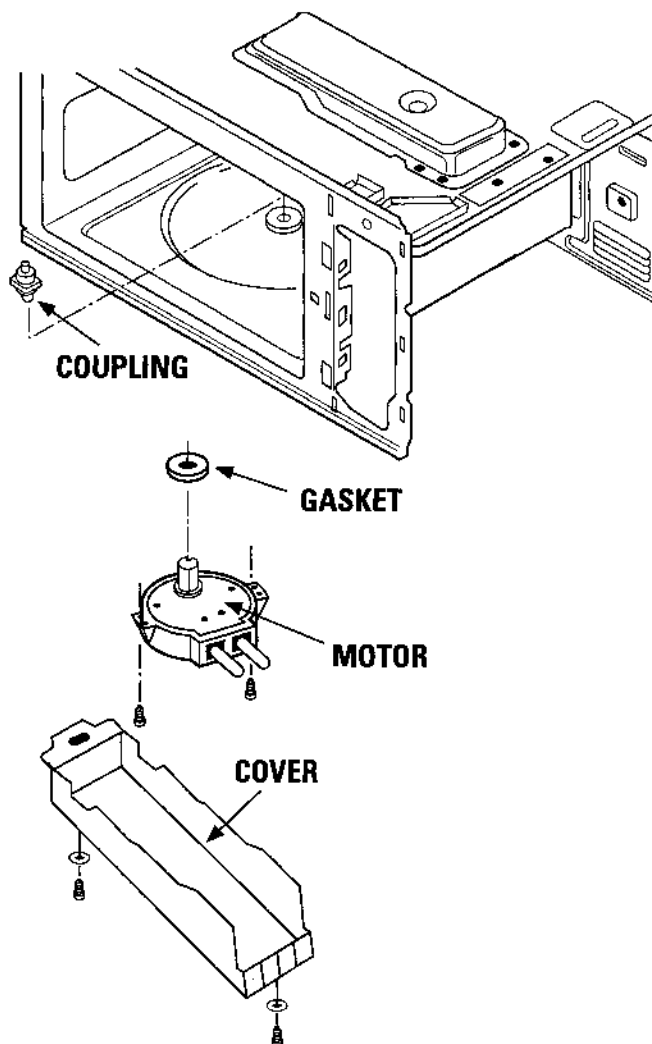
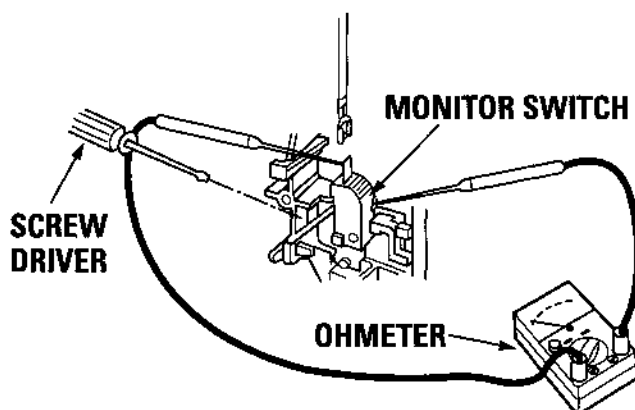
If the monitor fuse is blown when the door is opened, check the primary interlock relay, secondary interlock switches and monitor switch before replacing the blown monitor fuse.

CAUTION: BEFORE REPLACING A BLOWN MONITOR FUSE, TEST THE DOOR SENSING SWITCH, PRIMARY INTERLOCK RELAY, SECONDARY INTERLOCK SWITCH AND MONITOR SWITCH FOR PROPER OPERATION. IF THE MONITOR FUSE IS BLOWN BY IMPROPER SWITCH OPERATION, MONITOR FUSE (15A) AND SWITCH MUST BE REPLACED EVEN IF THE MONITOR SWITCH OPERATES NORMALLY.

TURNTABLE MOTOR AND COUPLING REMOVAL

1. Disconnect the oven from the power supply and remove turntable and turntable support from oven cavity.
2. Remove the motor cover by removing two (2) screws.
3. Disconnect the wire leads from the turntable motor and remove the two (2) screws holding the motor. **(Positive lock connectors)**
4. Turntable motor is now free.
5. At this time turntable coupling will be free.

NOTE: The two (2) screws holding the turntable motor cover to the oven cavity must be used.



DOOR ADJUSTMENT

The door can be adjusted by keeping screws of each hinge loose. Lower oven hinge can be loosened with Torx screwdriver (T-15).

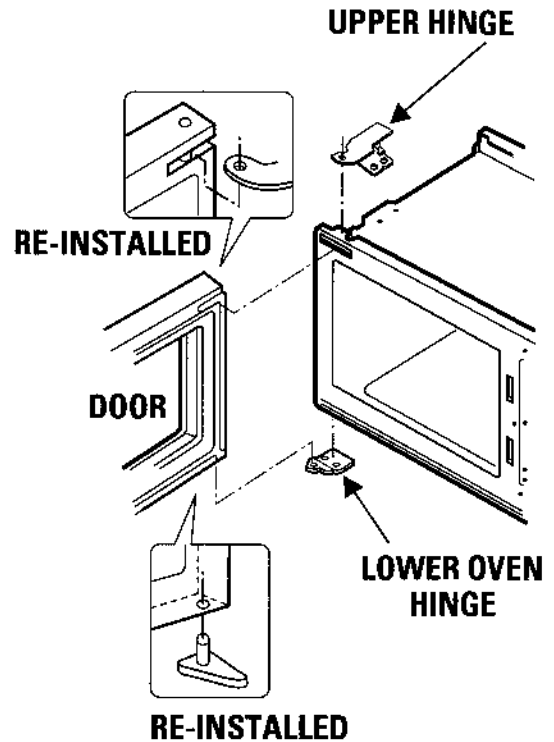
After adjustment, make sure of the following:

1. Door latch heads catch smoothly, latch hook through latch holes, and also latch head goes through center of latch hole.
2. Deviation of door alignment from horizontal line of cavity faceplate is to be less than 1.0mm (.04").
3. Door is positioned with its face depressed toward cavity faceplate.
4. Re-install outer case and check for microwave leakage around door with an approved microwave survey meter.

NOTE: Door on a microwave oven is designed to act as an electronic seal preventing the leakage of microwave energy from oven cavity during cook cycle. This function does not require that door be airtight, moisture- (condensation) tight or light-tight. Therefore, occasional appearance of moisture, light or sensing of gentle warm air movement around oven door is not abnormal and do not of themselves, indicate a leakage of microwave energy from oven cavity. If such were the case, your oven could not be equipped with a vent, the very purpose of which is to exhaust vapor-laden air from oven cavity.

DOOR DISASSEMBLY

The door will be replaced as an assembly.

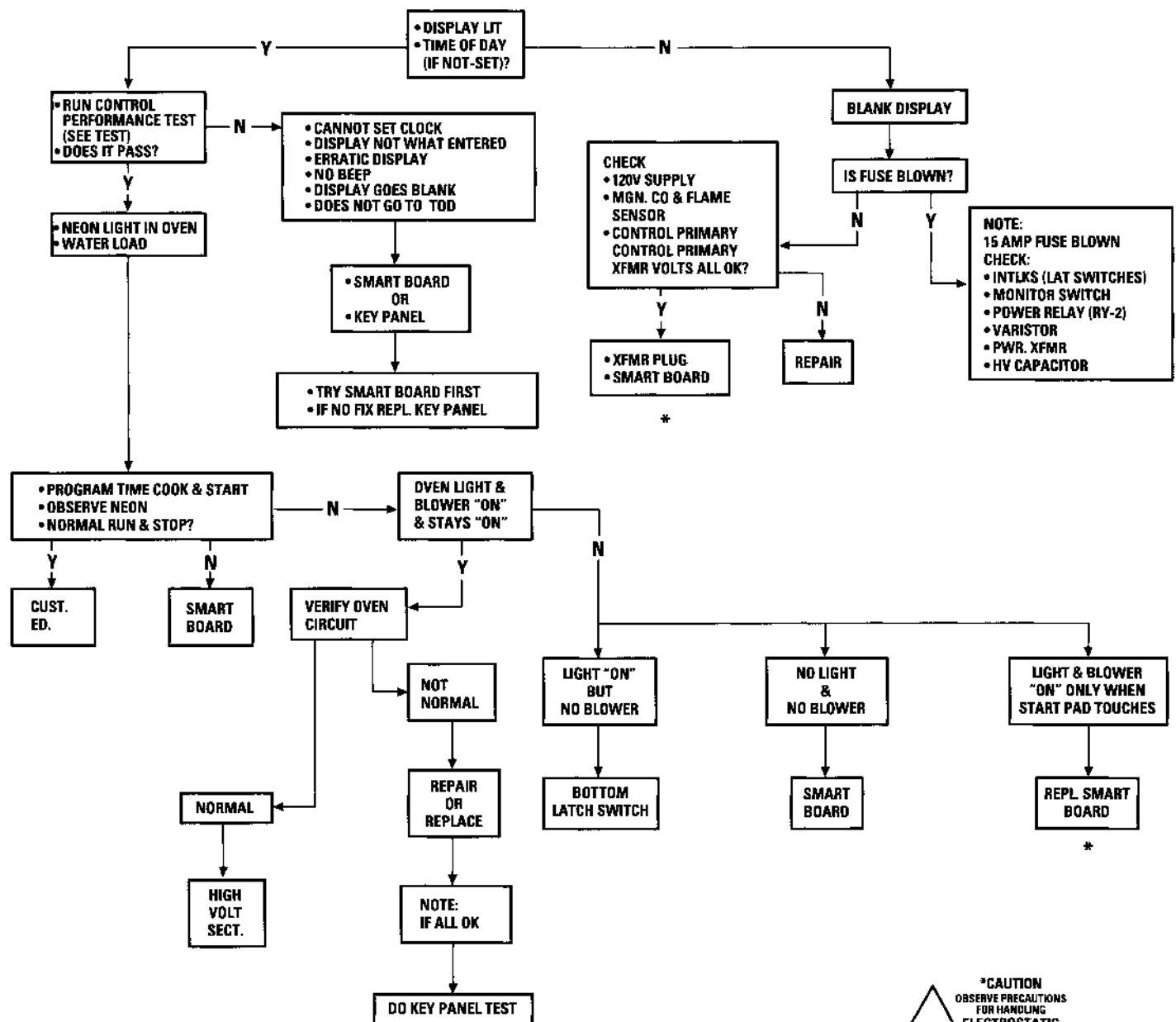


PERFORMANCE TEST (ALL MODELS)

1. Measure line voltage (loaded). This test is based on normal voltage variations of 105V to 130V. Low voltage will affect power and temperature rise.
2. Place (1) WB64X0073 beaker containing exactly one liter of water between 59°F and 75°F in the center of the shelf. Record the starting water temperature with an accurate glass thermometer (Robinair No. 12084).
3. Set at HIGH (Power).
4. Turn oven "ON" and time for exactly two minutes and three seconds.
5. At the end of time, record the water temperature. The difference between starting and ending temperatures is the temperature rise. Depending upon the line voltage, the minimum temperature rise should be: 30°F @ 120V

DIAGNOSIS FLOW CHART

Refer result to Diagnosis Flow Chart



SERVICING

TROUBLESHOOTING GUIDE

When troubleshooting the microwave oven, it is helpful to follow the Sequence of Operation in performing the checks. Many of the possible causes of trouble will require that a specific test be performed. These tests are given a procedure letter which will be found in the "Test Procedure" section.

IMPORTANT: If the oven becomes inoperative because of a blown monitor fuse in the monitor switch, primary interlock relay and secondary interlock switch circuit, check the monitor switch, primary interlock relay, door sensing switch and secondary interlock switch before replacing the monitor fuse.

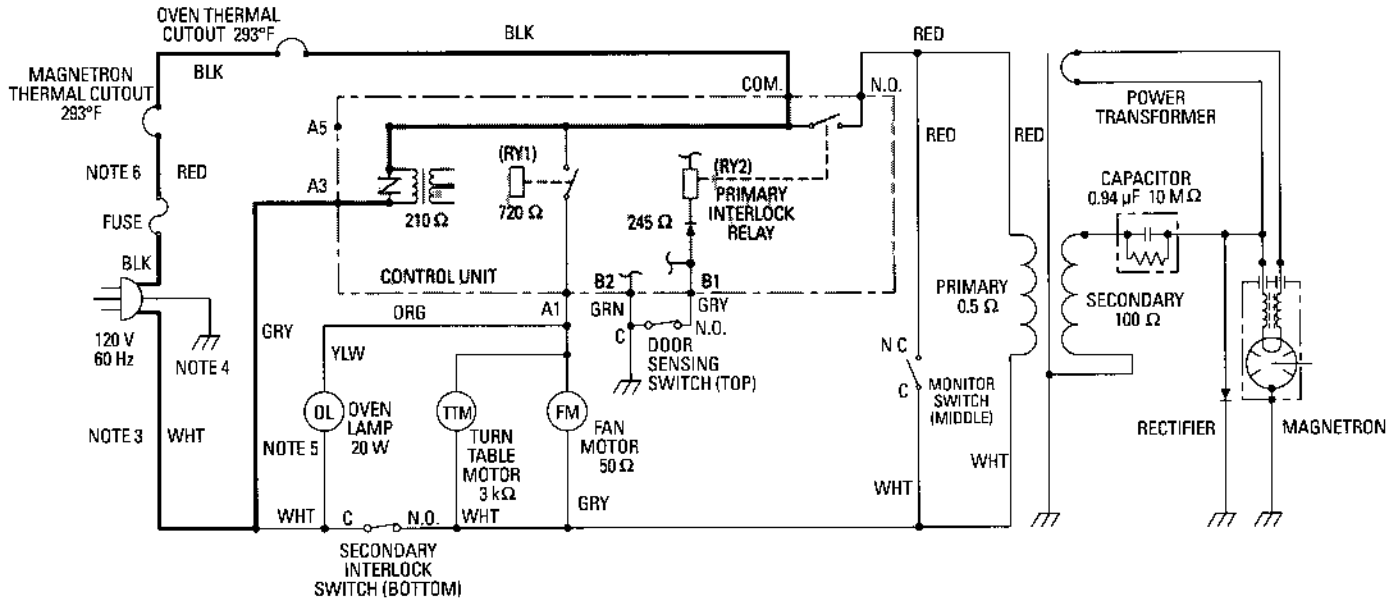
CONDITION	TEST PROCEDURE	POSSIBLE CAUSE AND DEFECTIVE PARTS	PROBLEM	Short in Power Cord	Short or Open Wiring	Magnetron	Power Transformer	Rectifier Assembly	H.V. Capacitor	Primary Interlock Switch	2nd Interlock Switch	Monitor Switch	Monitor Fuse	Temperature Fuse or Thermal Cut-out	Control Unit	Oven Lamp or Socket	Cooling Fan Motor	Stirrer Fan	Wrong Operation	Low Voltage	Dirty Oven Cavity	AH Sensor Assembly	Turntable Motor	
				OFF CONDITION	Home fuse blows when power cord is plugged into wall receptacle			●	●															
	Microwave fuse blows when power cord is plugged into wall receptacle.				●							●												
	All letter and indicator lights do not appear in display when power cord is first plugged into wall outlet.				●							●	●	●	●									
	Display does not operate properly when CLEAR/OFF key is touched. (Buzzer should sound and time of day should appear in display.)									●					●									
	Oven lamp does not light with door opened.			●									●	●	●	●								
COOKING CONDITION	Door closed, oven lamp and cooling fan motor on can not clear.									●														
	Oven lamp does not light in cool cycle or when door is opened.														●									
	Oven lamp does not light at all.			●											●	●								
	Oven lamp lights but fan motor or turntable motor do not operate.			●													●						●	
	Oven does not go into cook cycle when START pad is touched.			●						●	●		●	●	●									
	Oven seems to be operating but little or no heat is produced in oven load. (Food is incompletely cooked or not cooked at all at end of cook cycle.)			●	●	●	●	●	●	●														
	Oven produces extremely uneven heating in cook cycle.			●													●	●	●	●	●		●	
	Oven does not cook properly when programmed for Cooking Power 5 mode. (Operates properly on Cooking Power 10 mode.)			●											●									
SENSOR COOKING CONDITION	Oven is in the sensor cooking condition but AH sensor does not end, or AH sensor turns off about max. 30 min. after start. When a cup of water is heated by sensor, the oven does not shut off when water is boiling.														●							●		

Oven Schematic – Off Condition

SCHEMATIC

NOTE: CONDITION OF OVEN

1. DOOR CLOSE
2. CLOCK APPEARS ON DISPLAY



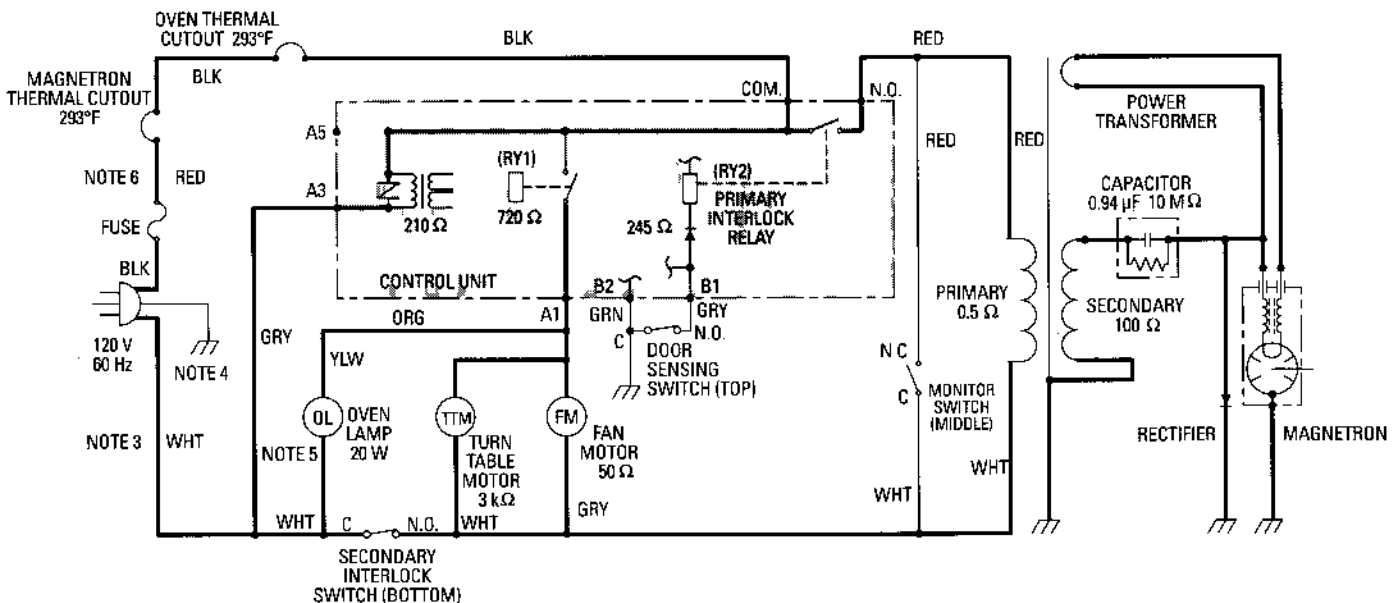
Oven and magnetron thermal cutouts are non-resettable.

Oven Schematic – Cooking Condition

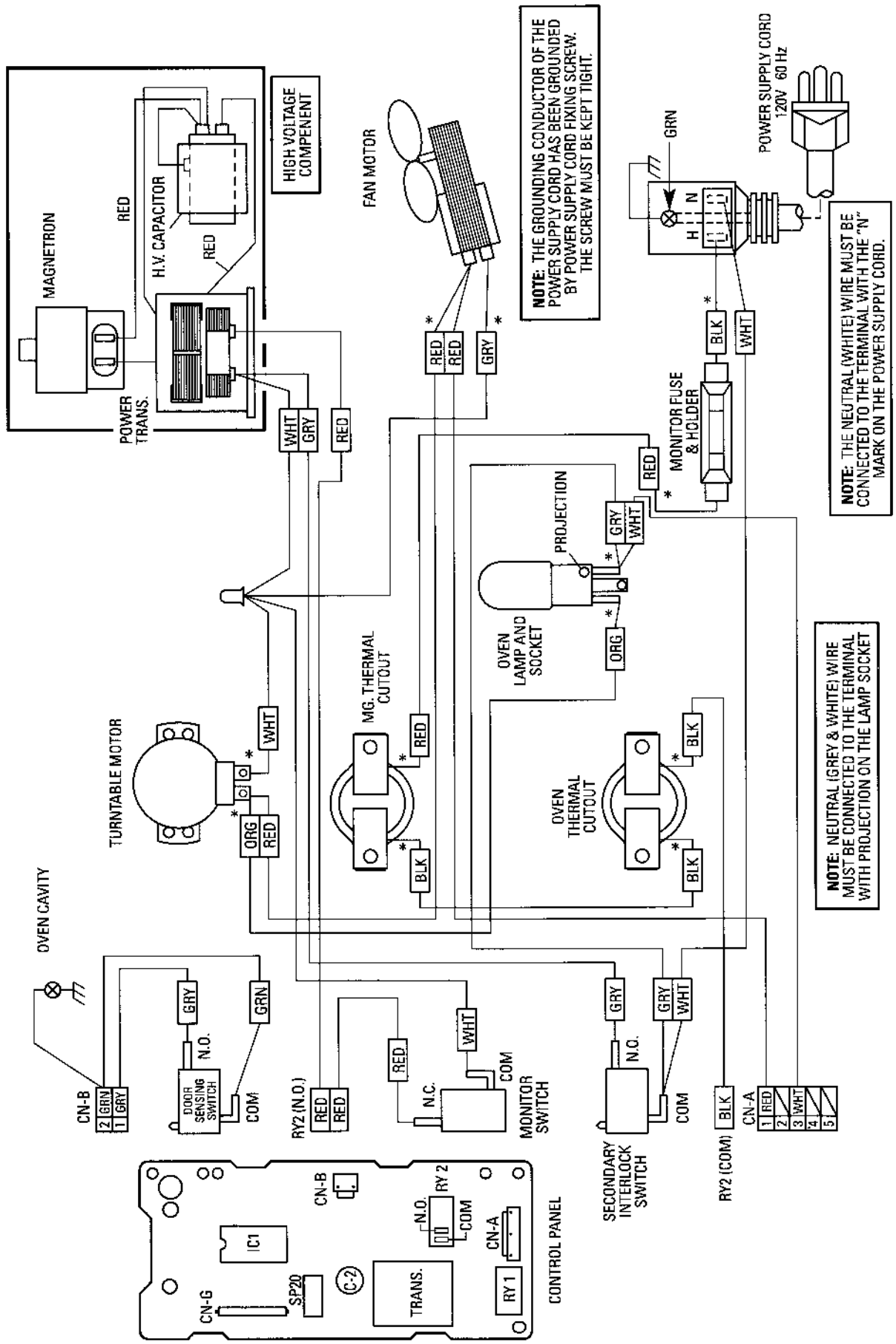
SCHEMATIC

NOTE: CONDITION OF OVEN

1. DOOR CLOSE
2. CLOCK TIME PROGRAMMED
3. POWER LEVEL "Power 10"
4. "START" PAD TOUCHED

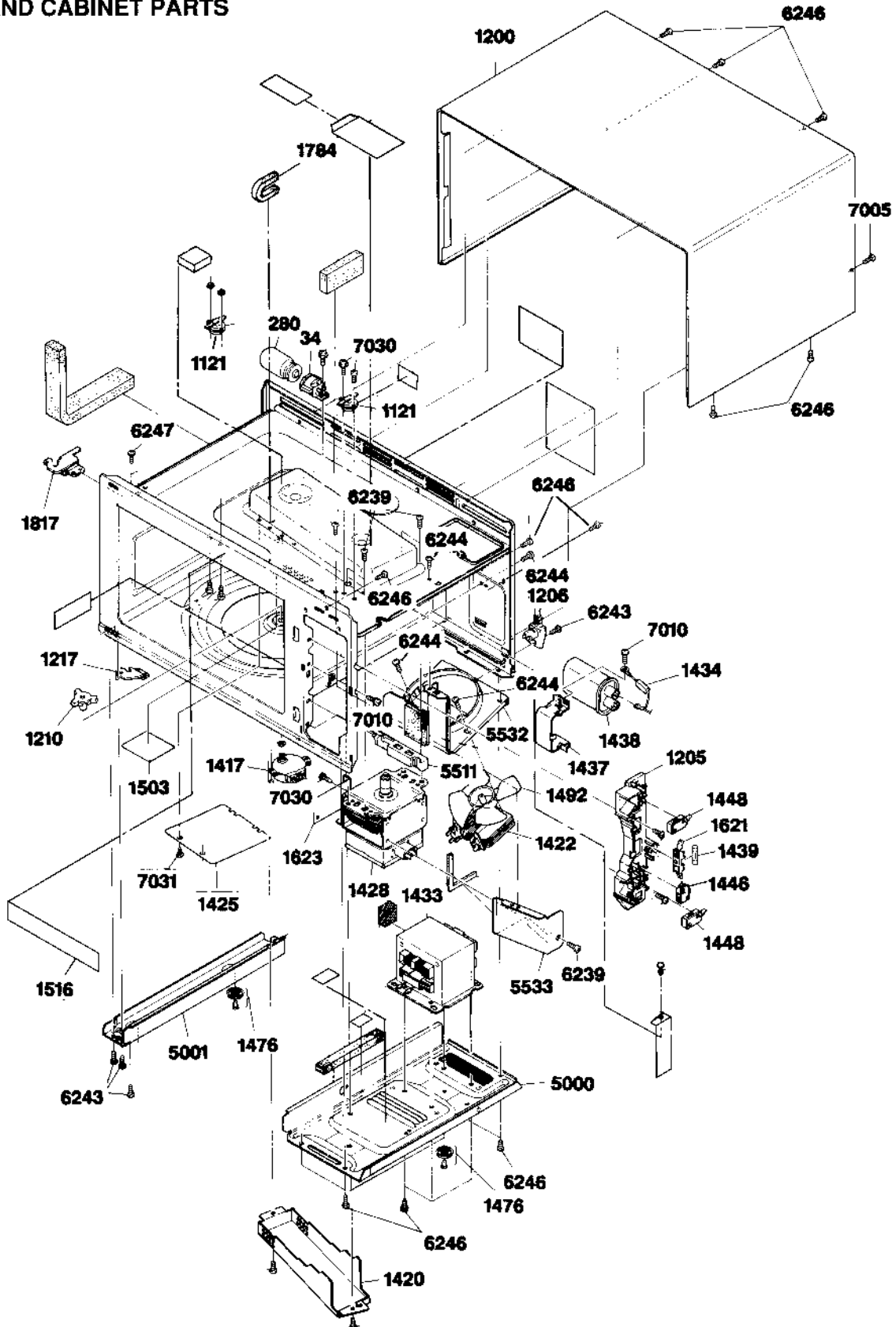


Pictorial Diagram for JE925T/JE926TWH/JE927TWH



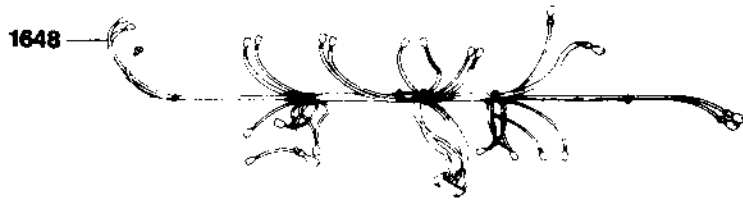
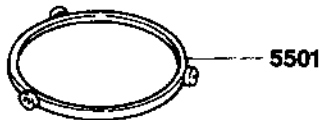
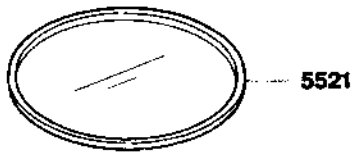
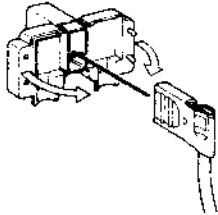
MODELS JE925T01, JE926TWH01

OVEN AND CABINET PARTS

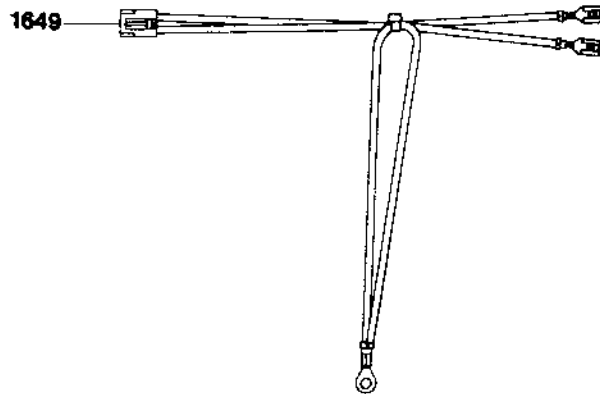


MODELS JE925T01, JE926TWH01

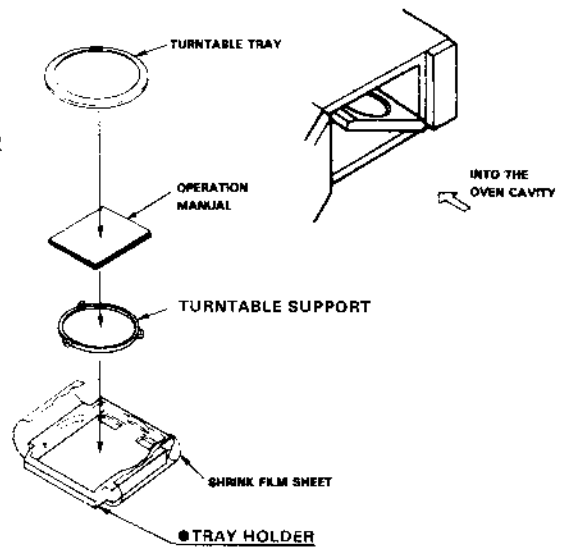
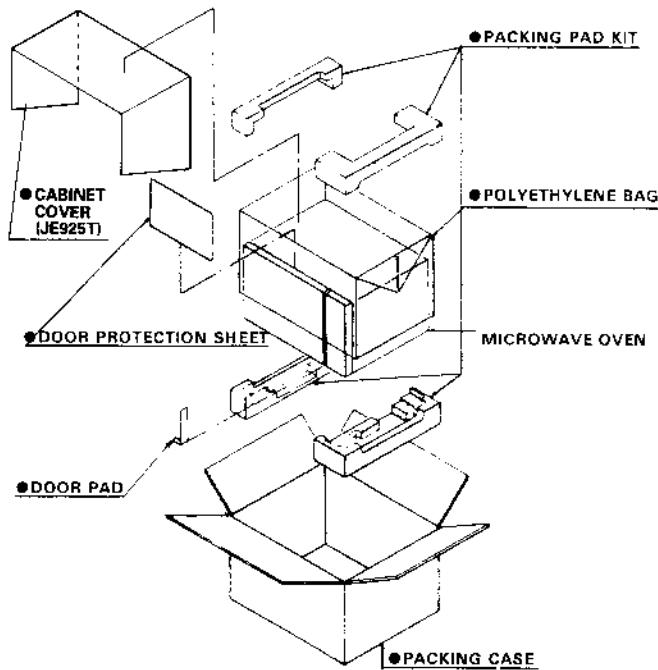
MISCELLANEOUS



*Actual wire harness may be different than illustration.



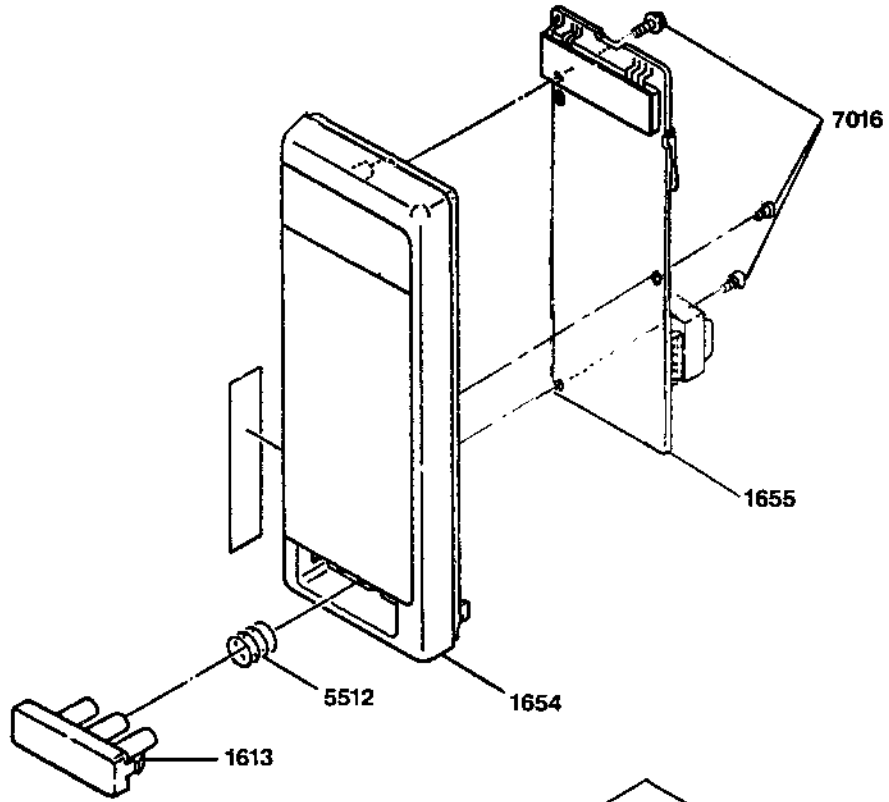
PACKING AND ACCESSORIES



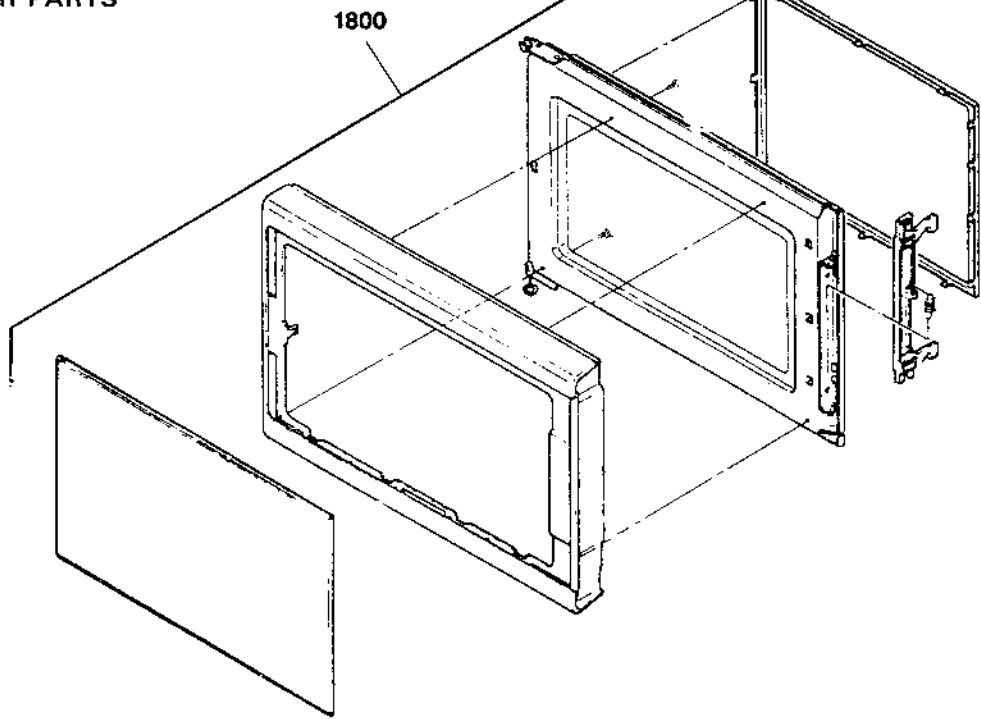
● Not Replacable Items.

MODELS JE925T01, JE926TWH01

CONTROL PANEL PARTS



DOOR PARTS



Ref. No.	Part No.	Part Description	JE925T01	JE926TWH01
34	WB08X0281	Socket – Oven Lamp	1	1
280	WB02X9251	Lamp, Oven	1	1
1121	WB27X0865	Thermal Cutout	2	2
1200	WB56X2124	Outer Case (JE926TWH)	—	1
	WB56X2123	Outer Case (JE925T)	1	—
1205	WB06X0225	Latch Hook	1	1
1206	WB18X0459	Power Supply Cord	1	1
1210	WB01X1469	Coupling	1	1
1217	WB14X0175	Lower Hinge	1	1
1417	WB26X0161	Turntable Motor	1	1
1420	WB06X0336	Motor Cover	1	1
1422	WB26X0160	Fan Motor	1	1
1425	WB06X0337	Waveguide Cover	1	1
1428	WB27X0866	Magnetron	1	1
1433	WB20X0158	Power Transformer	1	1
1434	WB18X0478	H.V. Rectifier	1	1
1435	WB18X0481	High Voltage Wire “B”	1	1
1437	WB06X0157	Capacitor Clamp	1	1
1438	WB27X0755	Capacitor HV	1	1
1439	WB27X0864	Switch with Fuse Assembly	1	1
1446	WB24X0804	Monitor Switch	1	1
1448	WB24X0803	Sensing and 2nd Lock Switch	2	2
1476	WB04X0143	Foot	4	4
1492	WB02X9470	Fan Blade	1	1
1503	WB04X0142	Lamp Filter	1	1
1516	WB04X0139	Cooking Guide Label	1	1
1613	WB03X0865	Open Button White	—	1
	WB03X0864	Open Button	1	—
1621	WB08X0280	Fuse Holder	1	1
1623	WB01X1468	Magnetron Angle	1	1
1630	WB27X0782	Connector 3-pin	—	1
1648	WB18X0479	Main Wire Harness	1	1
1649	WB18X0480	Switch Harness	1	1
1654	WB27X0869	Control Panel Assembly	—	1
	WB27X0868	Control Panel Assembly	1	—
1655	WB27X0867	Control Unit	1	1
	WB27X0782	Connector 3-pin	1	—
1784	WB06X0279	Cushion	1	1
1800	WB55X0829	Complete Door Assembly White	—	1
	WB55X0828	Complete Door Assembly	1	—
1817	WB14X0176	Upper Hinge	1	1
5000	WB56X2125	Bottom Plate Assembly Right	1	1
5001	WB56X2126	Bottom Plate Left	1	1
5501	WB6X0338	Turntable Support	1	1
5511	WB06X0335	Switch Lever	1	1
5512	WB06X0273	Spring-open Button	1	1
5521	WB49X0677	Turntable Tray	1	1
5532	WB06X0337	Fan Duct Assembly	1	—
5533	WB06X0334	Air Guide	1	1
6239	WB01X1239	Screw	5	5
6243	WB01X1243	Screw	4	4
6244	WB01X1244	Screw	4	4
6246	WB01X1246	Screw	17	17
6247	WB01X1247	Screw	2	2
7005	WB01X1235	Screw	1	1
7010	WB01X1240	Screw	2	2
7016	WB01X1211	Screw	3	3
7030	WB01X1445	Screw	3	3
7031	WB01X1219	Screw	2	2
9999	49-8405	Use & Care Booklet	1	1
9999	31-1432A	Wiring/Schematic	1	1
	31-1432	Mini-Manual	1	1