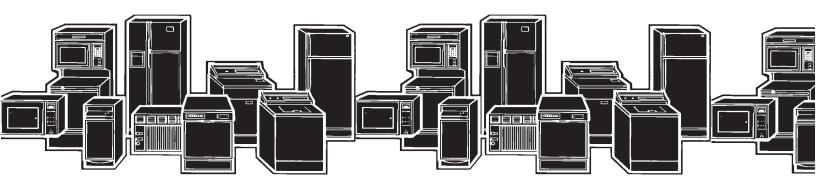
CONSUMER SERVICES TECHNICAL EDUCATION GROUP PRESENTS

KM-26

MICROWAVE CONVECTION OVEN



JOB AID Part No. 8177972



FORWARD

This Job Aid, "Whirlpool Microwave-Convection Oven," (Part No. 8177972), provides the technician with information on the installation and service of the Whirlpool Microwave-Convection Oven. It is to be used as a training Job Aid and Service Manual. For specific information on the model being serviced, refer to the "Use and Care Guide," or "Tech Sheet" provided with the microwave oven.

The Wiring Diagrams and Strip Circuits used in this Job Aid are typical and should be used for training purposes only. Always use the Wiring Diagram supplied with the product when servicing the unit.

GOALS AND OBJECTIVES

The goal of this Job Aid is to provide detailed information that will enable the service technician to properly diagnose malfunctions and repair the Microwave-Convection Oven.

The objectives of this Job Aid are to:

- Understand and follow proper safety precautions.
- Successfully troubleshoot and diagnose malfunctions.
- Successfully perform necessary repairs.
- Successfully return the microwave oven to proper operational status.

WHIRLPOOL CORPORATION assumes no responsibility for any repair made on our products by anyone other than Authorized Factory Service Technicians.

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WHIRLPOOL MODEL & SERIAL NUMBER DESIGNATIONS MODEL NUMBER

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SERIAL NUMBER

SERIAL NUMBER	FG	K	2 3	10202
MANUFACTURER				
FG = GOLDSTAR				
YEAR OF PRODUCTION				
K = 2000				
WEEK OF PRODUCTION				
23rd WEEK				
PRODUCT SEQUENCE NUMBER				

MODEL & SERIAL NUMBER LABEL AND TECH SHEET LOCATIONS

The Model/Serial Number label and Tech Sheet locations are shown below.



Model & Serial Number Location

Tech Sheet Location



IMPORTANT SAFETY INFORMATION Your safety and the safety of others is very important.

Important safety messages have been provided in this Job Aid. Always read and obey all safety messages.



This is the safety alert symbol.

This symbol alerts you to hazards that can kill or hurt you and others.

All safety messages will be preceded by the safety alert symbol and the word "WARNING."

All safety messages will identify the hazard, tell you how to reduce the chance of injury, and tell you what can happen if the instructions are not followed.

Grounding Instructions

CORD CONNECTED

The microwave oven must be grounded. In the event of an electrical short circuit, grounding reduces the risk of electric shock by providing an escape wire for the electrical current. The microwave oven is equipped with a cord having a grounding wire with a grounding plug. The plug must be plugged into an outlet that is properly installed and grounded.



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

Consult a qualified electrician or serviceman if the grounding instructions are not completely understood, or if doubt exists as to whether the microwave oven is properly grounded. Do not use an extension cord. If the power supply cord is too short, have a qualified electrician or serviceman install an outlet near the microwave oven.

PERMANENTLY CONNECTED

The microwave oven must be connected to a grounded, metallic, permanent wiring system, or an equipment grounding conductor should be run with the circuit conductors and connected to the equipment grounding terminal, or lead, on the microwave oven.

Warning To Service Technicians

To avoid possible exposure to microwave radiation or energy, visually check the oven for damage to the door and door seal before operating any oven. Use a microwave survey meter to check the amount of leakage before servicing. In the event the R.F. leakage exceeds 4 mw/cm² at 5 cm, appropriate repair must be made before continuing to service the unit. Check interlock function by operating the door latch. The oven cook cycle should cut off before the door can be opened.

The door and latching assembly contains the radio frequency energy within the oven. The door is protected by three safety interlock switches. Do not attempt to defeat them.

UNDER NO CIRCUMSTANCES SHOULD YOU TRY TO OPERATE THE OVEN WITH THE DOOR OPEN.

- Proper operation of microwave ovens requires that the magnetron be properly assembled to the waveguide and cavity. Never operate the magnetron unless it is properly installed.
- Be sure the "RF" seal is not damaged and is assembled around the magnetron dome properly when installing the magnetron.
- Routine service safety procedures should be exercised at all times.
- Untrained personnel should not attempt service without a thorough review of test procedures and safety information contained in this Job Aid.

Whirlpool microwave ovens have a monitoring system designed to assure proper operation of the safety interlock systems.

The interlock monitor switch will immediately cause the oven fuse to blow if the door is opened and the primary door interlock switch and/or the secondary interlock switch contacts fail in a closed position.

CAUTION: REPLACE BLOWN FUSE WITH 20 AMPERE CLASS H FUSE ONLY

Test the upper and lower door interlock switches, cook relay and interlock monitor switch (middle switch) for proper operation as described in the component test procedures, before replacing the blown oven fuse.

DO NOT ATTEMPT TO REPAIR STICKING CONTACTS OF ANY INTERLOCK SWITCH, SAFETY SWITCH OR COOK (LATCH) RELAY. THE COMPONENTS MUST BE REPLACED.

Any indication of sticking contacts during component tests requires replacement of that component to assure reliability of the safety interlock system.

IF THE FUSE IS BLOWN, THE MONITOR, PRIMARY, AND SECONDARY INTERLOCK SWITCHES MUST BE REPLACED. BE SURE THEY ARE PROPERLY CONNECTED.

Precautions To Be Observed Before And During Servicing To Avoid Possible Exposure To Excessive Microwave Energy

- 1. Do not operate or allow the oven to be operated with the door open.
- 2. Make the following safety checks on all ovens to be serviced before activating the magnetron or other microwave source and make repairs as necessary.
 - a) Interlock Operation
 - b) Proper Door Closing
 - c) Seal and Sealing Surfaces (Arcing, Wear and Other Damage)
 - d) Damage to or Loosening of Hinges and Latches
 - e) Evidence of Dropping or Abuse
- Before turning on the microwave power for any service test or inspection within the microwave generating components, check the magnetron, wave guide or transmission line and cavity for proper alignment.
- 4. Any defective or misadjusted components in the interlock, monitor, door seal and microwave generation and transmission system shall be repaired by procedures described in the Job Aid for the specific microwave oven being serviced before the oven is released to the owner.
- 5. A microwave leakage check to verify compliance with Federal Performance Standards should be performed on each oven prior to release to the owner.
- 6. Do not attempt to operate the oven if the door glass is broken.

A CAUTION

- High voltages are present during the cook cycle. Extreme caution should be observed at all times.
- Abrasive cleansers, steel-wool pads, gritty wash cloths, etc. can damage the control panel and the interior and exterior oven surfaces. Use a sponge with mild detergent or paper towels with spray glass cleaner. Apply spray glass cleaner to paper towel. Do not spray directly on oven.
- Before touching any oven component or wiring, always unplug the oven from its power source and discharge the capacitor by using a 20,000 ohm discharge resistor or use an insulated plastic handle screwdriver to short across the capacitor terminals.
- Check that the unit is grounded before troubleshooting. Be careful of the high voltage circuits. Discharge any static charge from your body by touching ground before handling any part of the circuitry on the control board. Electrostatic discharge may damage the control circuit.
- Do not touch oven components or wiring during operation. Attach meter leads with alligator clips when making operational tests.
- For continued protection against radiation emission, replace only with these types of switches: Primary (Interlock) Switch: SZM-V16-FA-63 or VP-533A-OF; Secondary (Interlock) Switch: SZM-V01-FA-32; Interlock (Monitor) Switch: SZM-V16-FA-62 or VP-532A-OF; Oven Lamp Switch: SZM-V6-FA-31 or VP-331 A-OD.
- It is neither necessary nor advisable to attempt measurement of high voltage.
- Attaching the adaptor ground terminal to the wall receptacle cover screw does not ground the appliance unless the cover screw is metal and not insulated and the wall receptacle is grounded through the house wiring.

AWARNING

- Disconnect the oven from electrical supply before servicing. Failure to do so could result in electrical shock or death.
- Improper use of the grounding plug can result in a risk of electrical shock. Do not, under any circumstance, cut or remove the third ground prong from the power cord plug.

Fire, Electrical Shock, Excessive Exposure to Microwave Energy, Personal Injury & Product Damage Hazard

 Do not block the rear air intake openings or exhaust vents. Allow a few inches of space at the back of the oven where intake openings and exhaust vents are located. Blocking the air intake openings and exhaust vents can cause damage to the oven and poor cooking results.

Electrostatic Discharge (ESD) Sensitive Electronics

ESD problems are present everywhere. ESD may damage or weaken the electronic control assembly. The new control assembly may appear to work well after repair is finished, but failure may occur at a later date due to ESD stress.

- Use an antistatic wrist strap. Connect wrist strap to green ground connection point or unpainted metal in the appliance, or touch your finger repeatedly to a green ground connection point or unpainted metal in the appliance.
- Before removing the part from its package, touch the antistatic bag to a green ground connection point or unpainted metal in the appliance.
- Avoid touching electronic parts or terminal contacts; handle electronic control assembly by the edges only.
- When repackaging failed electronic control assembly in antistatic bag, observe above instructions.

R.F. LEAKAGE TEST

EQUIPMENT

- Electromagnetic energy leakage monitor (NARDA 81 00B, HOLADAY H 1 501).
- 250 ml glass beaker.

TEST

On every service call, checks for microwave energy emission must be made according to the following manner.

- Remove the cooking rack from the oven cavity, if the microwave oven is so equipped.
- 2. Place a 250 ML (8.0 oz.) glass of water in the center of the oven bottom.
- Select "HIGH" cook power, turn the microwave oven on, and test for R.F. leakage at the following locations using the pattern shown below:
 - a) Around the cabinet at the front.
 - b) Around the door.
 - c) Across the console panel.
 - d) Horizontally across the door.
 - e) Vertically across the door.
 - f) Diagonally across the door.
 - g) Across the air vents.
 - h) Across the rear air vent.
 - i) All lockseams.
 - i) Weld at bottom.
 - k) Bottom plate.
 - I) Oven feet.
- 4. The scan speed is one inch per second.

When checking for R.F. leakage, use an approved R.F. measuring device to assure less than 4 mw/cm² emission at 5 cm distance with a maximum scan rate of 2.5 cm/second, in

compliance with U.S. Government Department of Health, Education and Welfare 21 CFR1030, performance Standard for Microwave Ovens.

A properly operating door and seal assembly will normally register small emissions, but they must be no greater than 4 mw/cm² to allow for measurement uncertainty.

NOTE: Enter leakage readings in space BE-FORE and AFTER on the service document.

All microwave ovens exceeding the emission level of 4 mw/cm² must be reported to Dept. of Service for microwave ovens immediately and the owner should be told not to use the microwave oven until it has been repaired completely.

If a microwave oven is found to operate with the door open, report to Dept. of Service, the manufacturer and CDRH* immediately. Also tell the owner not to use the oven.

The interlock monitor switch acts as the final safety switch protecting the customer from microwave radiation. If the interlock monitor switch operated to blow the fuse when the interlocks failed, you must replace all interlock switches with new ones, because the contacts of those interlock switches may be melted and welded together.

All repairs must be performed in such a manner that microwave energy emissions are minimal.

Address for CDRH is:

Office of Compliance (HFZ-312) Center for Devices and Radiological Health 1390 Piccard Drive Rockville, Maryland 20850

* CDRH: Center for Device and Radiological Health, Food and Drug Administration.

SPECIFICATIONS

Specifications / Model No.	GM8155XJQ/B/T
Colors	White/Black/Biscuit
Size - Cavity	1.5 cu. Feet
Sensor	Yes
Brand	Whirlpool Gold
CONTROL SYSTEM	V
Timer	Yes Electronic
Type Limits	99 Min./59 Sec.
Display	7 Digit Red and Blue-Green Fluorescent
MICROWAVE SYSTEM	7 Digit Ned and Dide-Green Fluorescent
Distribution	Maxwave (circular)
Dictibution .	Ceramic Dome, Horizontally
Magnetron	Cooled with Ferrite Magnets
OVEN INTERIOR FEATURES	·
Size	15 1/4" W x 10 7/8" H x 15 1/4" D
Capacity	1.5 Cubic Feet
Finish	Stainless Steel
Microwave Cooking Power	1000 Watts (IEC-705 Test)
Convection Heater	1500 watts
Grill Heater	No
Ventilation	Forced Air
Turntable	Removable Glass
Diameter	12 3/4" (324 mm)
Stoppable Park (shart)	No Vo-
Convection Bake Rack (short)	Yes
Drip Pan	Yes
Light	Automatic - Turns on when door is open, or oven is operating. 30 watt extended life
MICROWAVE COOKING CYCLES	oven is operating. 30 watt extended life
Sensor Popcorn	Yes
Auto Defrost	Yes
Sensor Cook	Yes
CONVECTION COOKING CYCLES - Manual	
Convection	Yes
Grill / Broil	No
CONVECTION COOKING CYCLES - Auto Co	ok * * * Whirlpool Corporate Exclusive * * *
Auto Convection Recipes	41 Recipes using optimal combination of Convection and / or Microwaves
·	and / or Microwaves
Meat	and / or Microwaves 8 options
·	and / or Microwaves
Meat Doneness Selection	and / or Microwaves 8 options Auto-Convection Meat category only (Rare, Med-Rare, Med, Med-Well, Well)
Meat Doneness Selection Poultry	and / or Microwaves 8 options Auto-Convection Meat category only (Rare,
Meat Doneness Selection Poultry Fish	and / or Microwaves 8 options Auto-Convection Meat category only (Rare, Med-Rare, Med, Med-Well, Well) 6 options
Meat Doneness Selection Poultry Fish Baked Goods Other Dishes	and / or Microwaves 8 options Auto-Convection Meat category only (Rare, Med-Rare, Med, Med-Well, Well) 6 options 5 options 9 options 7 options
Meat Doneness Selection Poultry Fish Baked Goods Other Dishes Snack Foods	and / or Microwaves 8 options Auto-Convection Meat category only (Rare, Med-Rare, Med, Med-Well, Well) 6 options 5 options 9 options
Meat Doneness Selection Poultry Fish Baked Goods Other Dishes Snack Foods OPERATING FEATURES	and / or Microwaves 8 options Auto-Convection Meat category only (Rare, Med-Rare, Med, Med-Well, Well) 6 options 5 options 9 options 7 options 6 options
Meat Doneness Selection Poultry Fish Baked Goods Other Dishes Snack Foods OPERATING FEATURES Minute Timer	and / or Microwaves 8 options Auto-Convection Meat category only (Rare, Med-Rare, Med, Med-Well, Well) 6 options 5 options 9 options 7 options 6 options Independent & Concurrent
Meat Doneness Selection Poultry Fish Baked Goods Other Dishes Sonack Foods OPERATING FEATURES Minute Timer Add Time	and / or Microwaves 8 options Auto-Convection Meat category only (Rare, Med-Rare, Med, Med-Well, Well) 6 options 5 options 7 options 6 options Independent & Concurrent JETStart (30 Seconds)
Meat Doneness Selection Poultry Fish Baked Goods Other Dishes Snack Foods OPERATING FEATURES Minute Timer Add Time Cook Time	and / or Microwaves 8 options Auto-Convection Meat category only (Rare, Med-Rare, Med, Med-Well, Well) 6 options 5 options 9 options 7 options 6 options Independent & Concurrent JETStart (30 Seconds) Yes
Meat Doneness Selection Poultry Fish Baked Goods Other Dishes Snack Foods OPERATING FEATURES Minute Timer Add Time Cook Time Warm Hold	and / or Microwaves 8 options Auto-Convection Meat category only (Rare, Med-Rare, Med, Med-Well, Well) 6 options 5 options 9 options 7 options 6 options Independent & Concurrent JETStart (30 Seconds) Yes Yes
Meat Doneness Selection Poultry Fish Baked Goods Other Dishes Snack Foods OPERATING FEATURES Minute Timer Add Time Cook Time Warm Hold Staged Cooking	and / or Microwaves 8 options Auto-Convection Meat category only (Rare, Med-Rare, Med, Med-Well, Well) 6 options 5 options 9 options 7 options 6 options Independent & Concurrent JETStart (30 Seconds) Yes Yes 3 Stages (Defrost or Warm Hold, Cook 1 - 2)
Meat Doneness Selection Poultry Fish Baked Goods Other Dishes Snack Foods OPERATING FEATURES Minute Timer Add Time Cook Time Warm Hold Staged Cooking Child Lock	and / or Microwaves 8 options Auto-Convection Meat category only (Rare, Med-Rare, Med, Med-Well, Well) 6 options 5 options 9 options 7 options 6 options Independent & Concurrent JETStart (30 Seconds) Yes Yes
Meat Doneness Selection Poultry Fish Baked Goods Other Dishes Snack Foods OPERATING FEATURES Minute Timer Add Time Cook Time Warm Hold Staged Cooking Child Lock	and / or Microwaves 8 options Auto-Convection Meat category only (Rare, Med-Rare, Med, Med-Well, Well) 6 options 5 options 9 options 7 options 6 options Independent & Concurrent JETStart (30 Seconds) Yes Yes 3 Stages (Defrost or Warm Hold, Cook 1 - 2) Yes - Off key for 4 seconds Low / Med / High / Off
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Meat Doneness Selection Poultry Fish Baked Goods Other Dishes Snack Foods OPERATING FEATURES Minute Timer Add Time Cook Time Warm Hold Staged Cooking Child Lock Options / Personal Choice: Sound Volume Weight Preference Language	and / or Microwaves 8 options Auto-Convection Meat category only (Rare, Med-Rare, Med, Med-Well, Well) 6 options 5 options 9 options 7 options 6 options Independent & Concurrent JETStart (30 Seconds) Yes Yes 3 Stages (Defrost or Warm Hold, Cook 1 - 2) Yes - Off key for 4 seconds Low / Med / High / Off Lbs / Kg Trilingual (English/French/Spanish)
Meat Doneness Selection Poultry Fish Baked Goods Other Dishes Snack Foods OPERATING FEATURES Minute Timer Add Time Cook Time Warm Hold Staged Cooking Child Lock Options / Personal Choice: Sound Volume Weight Preference Language Clock	and / or Microwaves 8 options Auto-Convection Meat category only (Rare, Med-Rare, Med, Med-Well, Well) 6 options 5 options 7 options 6 options Independent & Concurrent JETStart (30 Seconds) Yes Yes 3 Stages (Defrost or Warm Hold, Cook 1 - 2) Yes - Off key for 4 seconds Low / Med / High / Off Lbs / Kg Trilingual (English/French/Spanish) 12 hr / 24 hr / off
Doneness Selection Poultry Fish Baked Goods Other Dishes Snack Foods OPERATING FEATURES Minute Timer Add Time Cook Time Warm Hold Staged Cooking Child Lock Options / Personal Choice: Sound Volume Weight Preference Language Clock Sales Demo Mode	and / or Microwaves 8 options Auto-Convection Meat category only (Rare, Med-Rare, Med, Med-Well, Well) 6 options 5 options 7 options 6 options Independent & Concurrent JETStart (30 Seconds) Yes Yes 3 Stages (Defrost or Warm Hold, Cook 1 - 2) Yes - Off key for 4 seconds Low / Med / High / Off Lbs / Kg Trilingual (English/French/Spanish) 12 hr / 24 hr / off Yes - On / Off
Doneness Selection Poultry Fish Baked Goods Other Dishes Snack Foods OPERATING FEATURES Minute Timer Add Time Cook Time Warm Hold Staged Cooking Child Lock Options / Personal Choice: Sound Volume Weight Preference Language Clock Sales Demo Mode Microwave Variable Power	and / or Microwaves 8 options Auto-Convection Meat category only (Rare, Med-Rare, Med, Med-Well, Well) 6 options 5 options 9 options 7 options 6 options Independent & Concurrent JETStart (30 Seconds) Yes Yes 3 Stages (Defrost or Warm Hold, Cook 1 - 2) Yes - Off key for 4 seconds Low / Med / High / Off Lbs / Kg Trilingual (English/French/Spanish) 12 hr / 24 hr / off Yes - On / Off Yes
Meat Doneness Selection Poultry Fish Baked Goods Other Dishes Sonack Foods OPERATING FEATURES Minute Timer Add Time Cook Time Warm Hold Staged Cooking Child Lock Options / Personal Choice: Sound Volume Weight Preference Language Clock Sales Demo Mode Microwave Variable Power Type	and / or Microwaves 8 options Auto-Convection Meat category only (Rare, Med-Rare, Med, Med-Well, Well) 6 options 5 options 9 options 7 options 6 options Independent & Concurrent JETStart (30 Seconds) Yes Yes 3 Stages (Defrost or Warm Hold, Cook 1 - 2) Yes - Off key for 4 seconds Low / Med / High / Off Lbs / Kg Trilingual (English/French/Spanish) 12 hr / 24 hr / off Yes Electronic
Doneness Selection Poultry Fish Baked Goods Other Dishes Snack Foods OPERATING FEATURES Minute Timer Add Time Cook Time Warm Hold Staged Cooking Child Lock Options / Personal Choice: Sound Volume Weight Preference Language Clock Sales Demo Mode Microwave Variable Power Type Range	and / or Microwaves 8 options Auto-Convection Meat category only (Rare, Med-Rare, Med, Med-Well, Well) 6 options 5 options 9 options 7 options 6 options Independent & Concurrent JETStart (30 Seconds) Yes Yes 3 Stages (Defrost or Warm Hold, Cook 1 - 2) Yes - Off key for 4 seconds Low / Med / High / Off Lbs / Kg Trilingual (English/French/Spanish) 12 hr / 24 hr / off Yes Electronic 10% - 100%
Meat Doneness Selection Poultry Fish Baked Goods Other Dishes Snack Foods OPERATING FEATURES Minute Timer Add Time Cook Time Warm Hold Staged Cooking Child Lock Options / Personal Choice: Sound Volume Weight Preference Language Clock Sales Demo Mode Microwave Variable Power Type Range Scale	and / or Microwaves 8 options Auto-Convection Meat category only (Rare, Med-Rare, Med, Med-Well, Well) 6 options 5 options 9 options 7 options 6 options Independent & Concurrent JETStart (30 Seconds) Yes Yes 3 Stages (Defrost or Warm Hold, Cook 1 - 2) Yes - Off key for 4 seconds Low / Med / High / Off Lbs / Kg Trilingual (English/French/Spanish) 12 hr / 24 hr / off Yes - On / Off Yes Electronic 10% - 100% Digital
Meat Doneness Selection Poultry Fish Baked Goods Other Dishes Snack Foods OPERATING FEATURES Minute Timer Add Time Cook Time Warm Hold Staged Cooking Child Lock Options / Personal Choice: Sound Volume Weight Preference Language Clock Sales Demo Mode Microwave Variable Power Type Range Scale Levels	and / or Microwaves 8 options Auto-Convection Meat category only (Rare, Med-Rare, Med, Med-Well, Well) 6 options 5 options 9 options 7 options 6 options Independent & Concurrent JETStart (30 Seconds) Yes Yes 3 Stages (Defrost or Warm Hold, Cook 1 - 2) Yes - Off key for 4 seconds Low / Med / High / Off Lbs / Kg Trilingual (English/French/Spanish) 12 hr / 24 hr / off Yes Pes Electronic 10% - 100%
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Meat Doneness Selection Poultry Fish Baked Goods Other Dishes Snack Foods OPERATING FEATURES Minute Timer Add Time Cook Time Warm Hold Staged Cooking Child Lock Options / Personal Choice: Sound Volume Weight Preference Language Clock Sales Demo Mode Microwave Variable Power Type Range Scale Levels Convection Variable Power Range Increments	and / or Microwaves 8 options Auto-Convection Meat category only (Rare, Med-Rare, Med, Med-Well, Well) 6 options 5 options 9 options 7 options 6 options Independent & Concurrent JETStart (30 Seconds) Yes Yes 3 Stages (Defrost or Warm Hold, Cook 1 - 2) Yes - Off key for 4 seconds Low / Med / High / Off Lbs / Kg Trilingual (English/French/Spanish) 12 hr / 24 hr / off Yes - On / Off Yes Electronic 10% - 100% Digital Ten Yes 100, 225-450 F 5 degrees F Yes - Directional Arrows, Jet Start
Meat Doneness Selection Poultry Fish Baked Goods Other Dishes Snack Foods OPERATING FEATURES Minute Timer Add Time Cook Time Warm Hold Staged Cooking Child Lock Options / Personal Choice: Sound Volume Weight Preference Language Clock Sales Demo Mode Microwave Variable Power Type Range Scale Levels Convection Variable Power Range In-Use Reprogramming Start/Enter	and / or Microwaves 8 options Auto-Convection Meat category only (Rare, Med-Rare, Med, Med-Well, Well) 6 options 5 options 9 options 7 options 6 options Independent & Concurrent JETStart (30 Seconds) Yes Yes 3 Stages (Defrost or Warm Hold, Cook 1 - 2) Yes - Off key for 4 seconds Low / Med / High / Off Lbs / Kg Trilingual (English/French/Spanish) 12 hr / 24 hr / off Yes - On / Off Yes Electronic 10% - 100% Digital Ten Yes 100, 225-450 F 5 degrees F Yes - Directional Arrows, Jet Start Yes - Jet Start
Meat Doneness Selection Poultry Fish Baked Goods Other Dishes Snack Foods OPERATING FEATURES Minute Timer Add Time Cook Time Warm Hold Staged Cooking Child Lock Options / Personal Choice: Sound Volume Weight Preference Language Clock Sales Demo Mode Microwave Variable Power Type Range Scale Levels Convection Variable Power Range Increments In-Use Reprogramming Start/Enter Off/Cancel	and / or Microwaves 8 options Auto-Convection Meat category only (Rare, Med-Rare, Med, Med-Well, Well) 6 options 5 options 9 options 7 options 6 options Independent & Concurrent JETStart (30 Seconds) Yes Yes 3 Stages (Defrost or Warm Hold, Cook 1 - 2) Yes - Off key for 4 seconds Low / Med / High / Off Lbs / Kg Trilingual (English/French/Spanish) 12 hr / 24 hr / off Yes - On / Off Yes Electronic 10% - 100% Digital Ten Yes 100, 225-450 F 5 degrees F Yes - Directional Arrows, Jet Start Yes Ves 1 Ves
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Meat Doneness Selection Poultry Fish Baked Goods Other Dishes Snack Foods OPERATING FEATURES Minute Timer Add Time Cook Time Warm Hold Staged Cooking Child Lock Options / Personal Choice: Sound Volume Weight Preference Language Clock Sales Demo Mode Microwave Variable Power Type Range Scale Levels Convection Variable Power Range Increments In-Use Reprogramming Start/Enter Off/Cancel End-of-Cooking Reminder Power Failure Indication	and / or Microwaves 8 options Auto-Convection Meat category only (Rare, Med-Rare, Med, Med-Well, Well) 6 options 5 options 9 options 7 options 6 options Independent & Concurrent JETStart (30 Seconds) Yes Yes 3 Stages (Defrost or Warm Hold, Cook 1 - 2) Yes - Off key for 4 seconds Low / Med / High / Off Lbs / Kg Trilingual (English/French/Spanish) 12 hr / 24 hr / off Yes - On / Off Yes Electronic 10% - 100% Digital Ten Yes 100, 225-450 F 5 degrees F Yes - Directional Arrows, Jet Start Yes 3 tones Yes - Colon ":"
Meat Doneness Selection Poultry Fish Baked Goods Other Dishes Snack Foods OPERATING FEATURES Minute Timer Add Time Cook Time Warm Hold Staged Cooking Child Lock Options / Personal Choice: Sound Volume Weight Preference Language Clock Sales Demo Mode Microwave Variable Power Type Range Scale Levels Convection Variable Power Range Increments In-Use Reprogramming Start/Enter Off/Cancel End-of-Cooking Reminder Power Failure Indication Error Indication	and / or Microwaves 8 options Auto-Convection Meat category only (Rare, Med-Rare, Med, Med-Well, Well) 6 options 5 options 9 options 7 options 6 options Independent & Concurrent JETStart (30 Seconds) Yes Yes 3 Stages (Defrost or Warm Hold, Cook 1 - 2) Yes - Off key for 4 seconds Low / Med / High / Off Lbs / Kg Trilingual (English/French/Spanish) 12 hr / 24 hr / off Yes - On / Off Yes Electronic 10% - 100% Digital Ten Yes 100, 225-450 F 5 degrees F Yes - Directional Arrows, Jet Start Yes - Jet Start Yes - Colon ":" (Tones & "Error")
Meat Doneness Selection Poultry Fish Baked Goods Other Dishes Snack Foods OPERATING FEATURES Minute Timer Add Time Cook Time Warm Hold Staged Cooking Child Lock Options / Personal Choice: Sound Volume Weight Preference Language Clock Sales Demo Mode Microwave Variable Power Type Range Scale Levels Convection Variable Power Range Increments In-Use Reprogramming Start/Enter Off/Cancel End-of-Cooking Reminder Power Failure Indication	and / or Microwaves 8 options Auto-Convection Meat category only (Rare, Med-Rare, Med, Med-Well, Well) 6 options 5 options 9 options 7 options 6 options Independent & Concurrent JETStart (30 Seconds) Yes Yes 3 Stages (Defrost or Warm Hold, Cook 1 - 2) Yes - Off key for 4 seconds Low / Med / High / Off Lbs / Kg Trilingual (English/French/Spanish) 12 hr / 24 hr / off Yes - On / Off Yes Electronic 10% - 100% Digital Ten Yes 100, 225-450 F 5 degrees F Yes - Directional Arrows, Jet Start Yes 3 tones Yes - Colon ":"

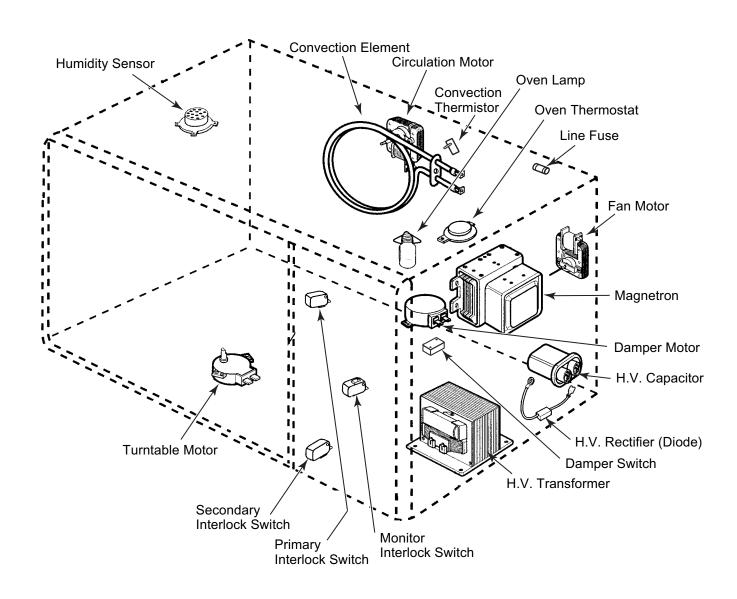
Specifications (Continued)

	GM8155XJQ/B/T			
EVERIOR FEATURES	GWB 133XJQ/B/ 1			
Cutaida Dimanaiana	22 5/8" W x 14 7/8" H x 20" D			
Outside Dimensions	Wrap-Around Cabinet			
Construction	44" - 90 degree angle			
Power Cord Length / Type	1 44 - 90 degree angle			
DOOR FEATURES	Characad stant			
Outer Door Window Size	Stamped steel 12.8" W x 8.5" H			
	Side Swing			
Side Swing or Pull Down Door? Door Handle/Push Button	Door Handle - Pull out			
Seals	Two stage (capacitive & reflective)			
SAFETY FEATURES				
Interlock	Three door/latch operated switches (1 primary, 1 monitor, 1 secondary)			
Thermal Protectors	One (1 oven cavity)			
OTHER SPECIFICATIONS				
Electrical	120 Volt, Single Phase, 60 Hz, 1500 Watts, for use with 20 Amp Circuit			
Residential Use Only	Yes			
Agency Approvals	FCC, CDRH (DHHS), U.L. listed			
Full Warranty	One Year - In-Home			
Limited Addl Warranty on Magnetron	4 Years Additional In-Home (2nd-5th year)			
Model/Serial Plate Location	Front Plate - Lower Left			
Cook Guide Location	Front Frame			
Approx. Net Weight (Lbs.)	52 lbs			
ACCESSORIES				
UTC Kit	No			
Over Heat Source	Yes			
Trim Kit - 27"	MK1157XJQ (8172230), MK1157XJB (8172231), MK1157XJT (8172232), MK1157XJS (8172233)			
Trim Kit - 30"	MK1150XJQ (8172226), MK1150XJB (8172227), MK1150XJT (8172228), MK1150XJS (8172229)			
LITERATURE				
Use and Care Guide - English & Spanish	8172190 / 3828W5A1491			
Cooking Guide - English	8172205 / 3850W3D052A			
Cooking Guide - Spanish	8172222 / 3850W3D052B			
Installation Instructions	8172219 / 3828W5U078			
Template for Built-in Kits	8172220 / 4922W5A012A			
Tech Sheet	8172214 / 3840W5T089A			

COMPONENT ACCESS

This section instructs you on how to service each component inside the Model GM8155XJ Microwave Convection Oven. The components and their locations are shown below.

MICROWAVE OVEN COMPONENT LOCATIONS



REMOVING THE MICROWAVE OVEN CABINET

AWARNING

Electrical Shock Hazard

Disconnect power before servicing.
Replace all panels before operating.
Failure to do so could result in death or electrical shock.

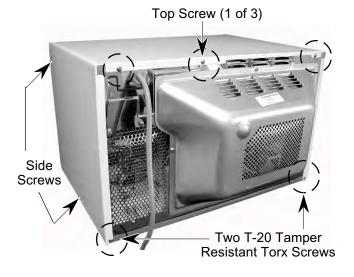
CAUTION: When you work on the microwave oven, be careful when handling the sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

- 1. Disconnect the electrical power to the microwave oven.
- Open the microwave oven door and remove the glass turntable and roller assembly from inside the oven cavity, then close the door.

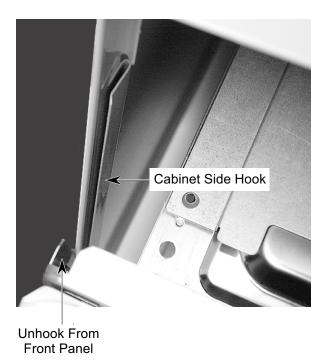


Turntable & Roller Assembly

 Remove the five rear flange screws and the two right side screws from the microwave oven cabinet. NOTE: The two bottom flange screws are T-20 tamper-resistant torx screws.



4. Pull the cabinet back, unhook it from the sides and top of the front panel, and remove the cabinet.



REMOVING THE ELECTRONIC OVEN CONTROL

▲WARNING

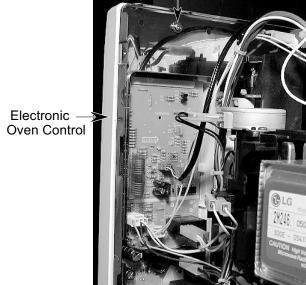
Electrical Shock Hazard

Disconnect power before servicing.
Replace all panels before operating.
Failure to do so could result in death or electrical shock.

CAUTION: When you work on the microwave oven, be careful when handling the sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

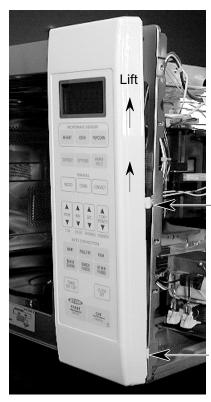
- 1. Disconnect the electrical power to the microwave oven.
- 2. Remove the cabinet from the microwave oven (see page 2-2 for the procedure).
- 3. Remove the screw from the top of the electronic oven control (EOC).

Screw



4. Open the microwave oven door.

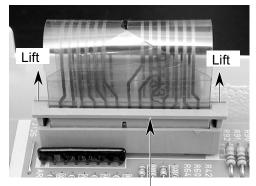
From the front of the unit, slide the electronic oven control up, unhook the four side tabs from the chassis slots, and pull the EOC forward.



Tab In Slot

Tab In Slot

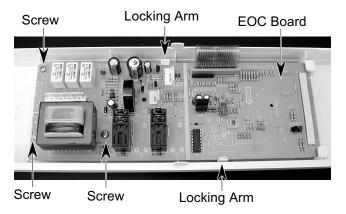
- Disconnect the wire connectors from the EOC board.
- 7. To remove the circuit board from the EOC panel:
 - a) Lift the locking ring and remove the end of the ribbon cable from connector CN3.

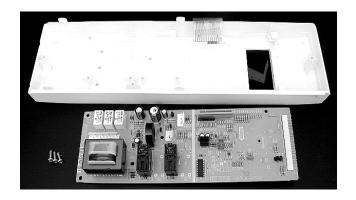


Locking Ring

Continued on the next page.

b) Remove the three screws and unclip the board from the two locking arms.





REMOVING THE DOOR INTERLOCK SWITCHES

AWARNING

Electrical Shock Hazard

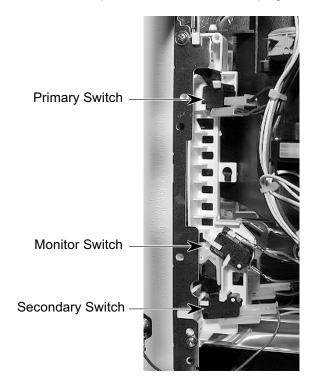
Disconnect power before servicing.
Replace all panels before operating.
Failure to do so could result in death or electrical shock.

CAUTION: When you work on the microwave oven, be careful when handling the sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

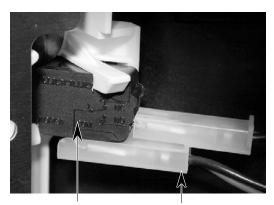
- 1. Disconnect the electrical power to the microwave oven.
- 2. Remove the cabinet from the microwave oven (see page 2-2 for the procedure).

CAUTION: The three door interlock switches are mounted in a plastic holder (see below). The locking arms that hold the switches in place are easily broken if bent too far. Do not overbend the arms.

NOTE: You may fine it easier to service the door switches with the electronic oven control removed. The procedure is shown on page 2-3.



- 3. To remove the primary door interlock switch:
 - a) Disconnect the wire connector from the terminals.

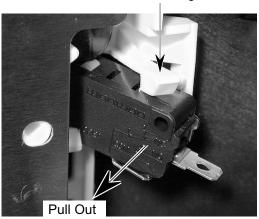


Primary (Top) Door Switch

Wire Connector

 b) Carefully pull out on the switch while you raise the locking arm, and remove the switch from the plastic holder.

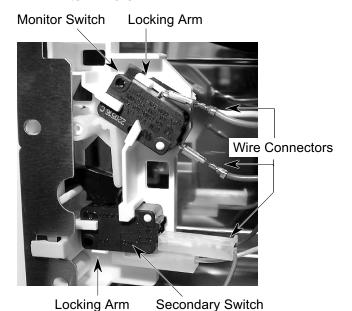
Raise Locking Arm



Continued on the next page.

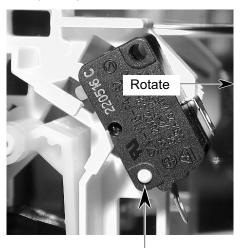
4. To remove the monitor or secondary door interlock switch:

a) Disconnect the wire connector from the terminals.



CAUTION: When you press in on the locking arm to remove the switch in the next step, be careful not to press in too far, or you will break the arm off. If this happens, you will have to replace the entire switch bracket.

b) Press in on the locking arm, (refer to the previous photo), rotate the switch so it is free of the arm, and pull the switch off the pivot pin.



Pivot Pin

REMOVING THE HUMIDITY SENSOR

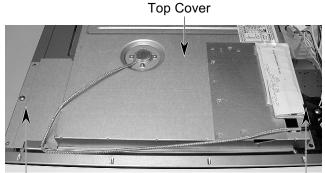
AWARNING

Electrical Shock Hazard

Disconnect power before servicing.
Replace all panels before operating.
Failure to do so could result in death or electrical shock.

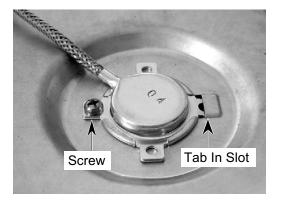
CAUTION: When you work on the microwave oven, be careful when handling the sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

- 1. Disconnect the electrical power to the microwave oven.
- 2. Remove the cabinet from the microwave oven (see page 2-2 for the procedure).
- 3. Remove the 2 screws from the top cover.

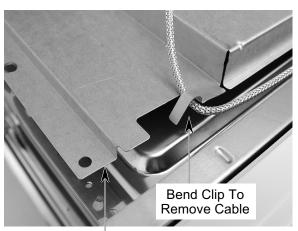


Screw Screw

 Remove the mounting screw from the humidity sensor, lift the sensor and slide the tab out of the slot in the top cover, and remove the sensor.

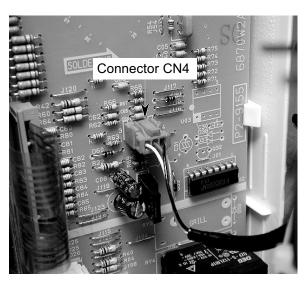


5. Lift the front of the top cover and bend the two clips out just enough to remove the humidity sensor cable from them.



Lift Top Cover

6. Disconnect humidity sensor connector CN4 from the electronic oven control board.



REMOVING THE OVEN LAMP, THE DAMPER MOTOR, & DAMPER SWITCH

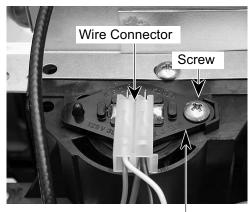
▲WARNING

Electrical Shock Hazard

Disconnect power before servicing.
Replace all panels before operating.
Failure to do so could result in death or electrical shock.

CAUTION: When you work on the microwave oven, be careful when handling the sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

- 1. Disconnect the electrical power to the microwave oven.
- 2. Remove the cabinet from the microwave oven (see page 2-2 for the procedure).
- 3. To remove the oven lamp:
 - a) Disconnect the wire connector from the lamp terminals.
 - b) Remove the mounting screw from the base.



Oven Lamp Base

c) Pull the oven lamp out of the unit.

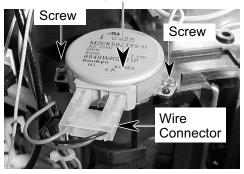


Oven Lamp

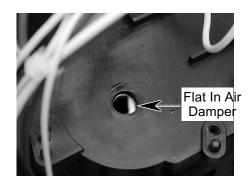
4. To remove the damper motor:

- a) Disconnect the wire connector from the motor terminals.
- b) Remove the two mounting screws.

Damper Motor

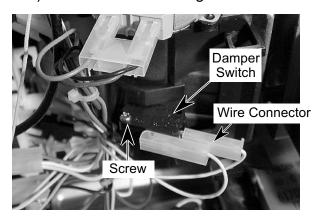


REASSEMBLY NOTE: When you reinstall the damper motor, align the flat of the motor shaft with the flat of the air damper hole, and insert the shaft into the hole.



5. To remove the damper switch:

- a) Disconnect the wire connector from the switch terminals.
- b) Remove the mounting screw.



REMOVING THE OVEN THERMOSTAT

AWARNING

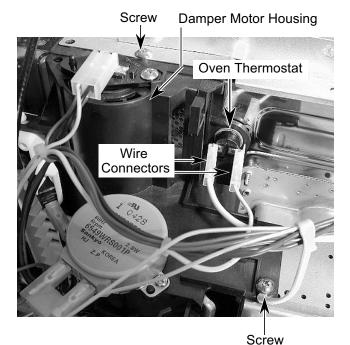
Electrical Shock Hazard

Disconnect power before servicing.
Replace all panels before operating.
Failure to do so could result in death or electrical shock.

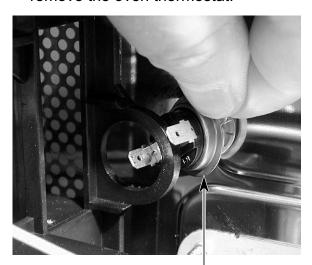
CAUTION: When you work on the microwave oven, be careful when handling the sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

- 1. Disconnect the electrical power to the microwave oven.
- 2. Remove the cabinet from the microwave oven (see page 2-2 for the procedure).

3. Disconnect the wire connectors from the oven thermostat terminals.



- 4. Remove the two indicated screws from the damper motor housing.
- 5. Pull the damper motor housing out and remove the oven thermostat.



Oven Thermostat

REMOVING THE MAGNETRON

AWARNING

Electrical Shock Hazard

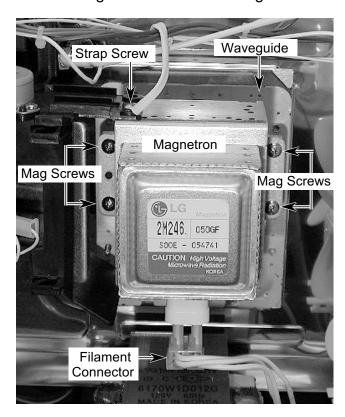
Disconnect power before servicing.
Replace all panels before operating.
Failure to do so could result in death or electrical shock.

CAUTION: When you work on the microwave oven, be careful when handling the sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

- Disconnect the electrical power to the microwave oven.
- 2. Remove the cabinet from the microwave oven (see page 2-2 for the procedure).

CAUTION: Discharge the high voltage capacitor terminals with a 20,000 ohm resistor to chassis ground.

- 3. Disconnect the filament connector from the magnetron terminals.
- 4. Remove the wire strap screw and the four magnetron mounting screws and remove the magnetron from the waveguide.



REMOVING THE HIGH VOLTAGE TRANSFORMER

▲WARNING

Electrical Shock Hazard

Disconnect power before servicing.

Replace all panels before operating.

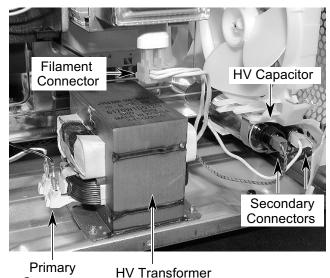
Failure to do so could result in death or electrical shock.

CAUTION: When you work on the microwave oven, be careful when handling the sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

- 1. Disconnect the electrical power to the microwave oven.
- 2. Remove the cabinet from the microwave oven (see page 2-2 for the procedure).

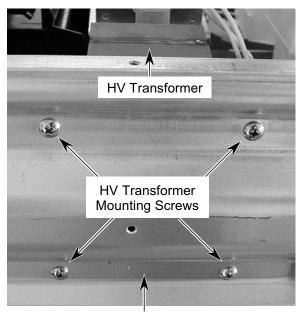
CAUTION: Discharge the high voltage capacitor terminals with a 20,000 ohm resistor to chassis ground.

- Disconnect the two primary wire connectors from the high voltage transformer terminals.
- Disconnect the filament connector from the magnetron and the secondary winding connectors from the high voltage capacitor.



Connectors

5. Position the microwave oven on its left side so that the bottom of the oven is accessible.



Bottom Of Oven

6. Remove the four high voltage transformer mounting screws from the bottom of the oven. Hold the transformer with one hand to keep it from falling.

REMOVING THE LINE FUSE & FUSEHOLDER

AWARNING

Electrical Shock Hazard

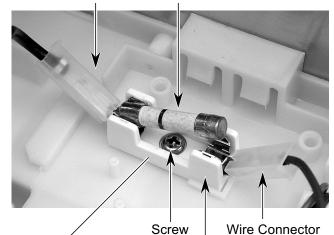
Disconnect power before servicing.
Replace all panels before operating.
Failure to do so could result in death or electrical shock.

CAUTION: When you work on the microwave oven, be careful when handling the sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

- 1. Disconnect the electrical power to the microwave oven.
- 2. Remove the cabinet from the microwave oven (see page 2-2 for the procedure).

- 3. Disconnect the two wire connectors from the line fuse terminals.
- 4. Unsnap the 20A line fuse from the fuseholder.
- 5. Remove the screw from the fuseholder and remove it from the bracket.

Wire Connector 20A Fuse



Bracket

Fuseholder

REMOVING THE HIGH VOLTAGE RECTIFIER, THE HIGH VOLTAGE CAPACITOR, AND THE FAN MOTOR

AWARNING

Electrical Shock Hazard

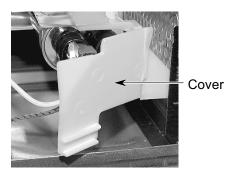
Disconnect power before servicing.
Replace all panels before operating.
Failure to do so could result in death or electrical shock.

CAUTION: When you work on the microwave oven, be careful when handling the sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

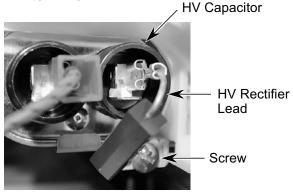
- Disconnect the electrical power to the microwave oven.
- 2. Remove the cabinet from the microwave oven (see page 2-2 for the procedure).

CAUTION: Discharge the high voltage capacitor terminals with a 20,000 ohm resistor to chassis ground.

- 3. To remove the high voltage rectifier:
 - a) Open the cover on the mounting bracket.



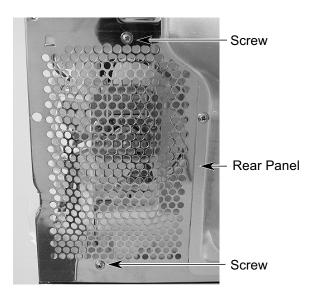
b) Disconnect the high voltage rectifier lead from the high voltage capacitor terminal.



c) Remove the mounting screw from the other lead of the high voltage rectifier.

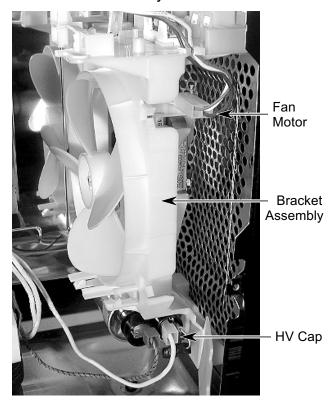
To remove the high voltage capacitor & fan motor, perform the following steps.

4. Remove the two mounting bracket screws from the rear panel of the microwave oven.



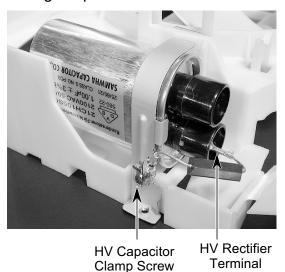
Continued on the next page.

5. Disconnect the wire connectors from the line fuse terminals, the fan motor, and the high voltage capacitor, and remove the bracket assembly.



6. To remove the high voltage capacitor:

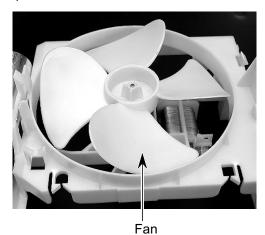
a) Disconnect the high voltage rectifier lead from the terminal of the high voltage capacitor.



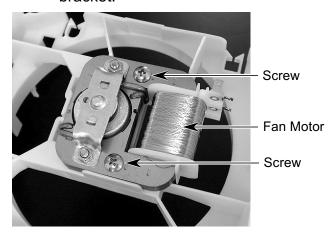
 Remove the clamp screw and remove the high voltage capacitor from the bracket.

7. To remove the fan motor:

a) Pull the fan off the motor shaft.



b) Remove the two screws from the fan motor and remove the motor from the bracket.





REMOVING THE CONVECTION THERMISTOR, CIRCULATION MOTOR, & CONVECTION ELEMENT

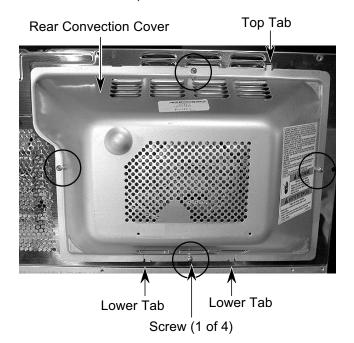
▲WARNING

Electrical Shock Hazard

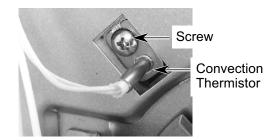
Disconnect power before servicing.
Replace all panels before operating.
Failure to do so could result in death or electrical shock.

CAUTION: When you work on the microwave oven, be careful when handling the sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

- Disconnect the electrical power to the microwave oven.
- 2. Remove the cabinet from the microwave oven (see page 2-2 for the procedure).
- 3. To remove the convection thermistor:
 - a) Remove the four screws from the rear convection cover.
 - b) Pull the top cover tab out of the slot, lift the cover, pull the two lower tabs from their slots, and remove the cover.

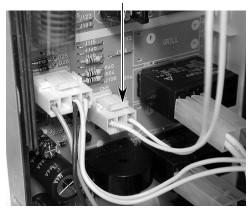


c) Remove the thermistor mounting screw.



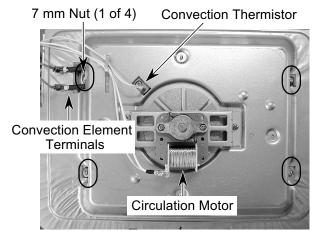
d) Disconnect the wire connector at electronic oven control plug CN5.

Thermistor Connector CN5



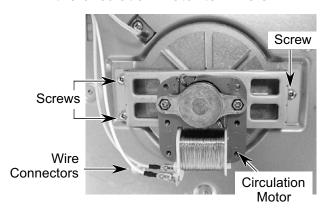
4. To remove the circulation motor:

- a) If not already done, remove the rear convection cover (see steps 3a & 3b).
- b) Remove the four 7 mm hex-washer nuts from the convection mounting cover, remove the cover from the studs, and lean it against the rear of the unit.



Continued on the next page.

c) Remove the two wire connectors from the circulation motor terminals.

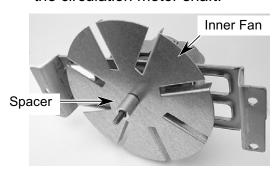


- d) Remove the three circulation fan motor mounting bracket screws and remove the motor and bracket.
- e) Remove the 7 mm nut, split washer, flat washer, and outer fan from the circulation motor shaft.

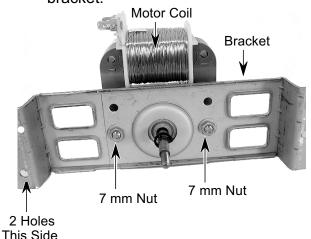




f) Remove the spacer and inner fan from the circulation motor shaft.



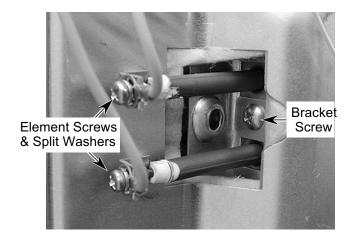
g) Remove the two 7 mm nuts and remove the circulation motor from the bracket.



REASSEMBLY NOTE: Make sure that you mount the circulation motor on the bracket with the two bracket holes to the left and the motor coil positioned up, as shown above.

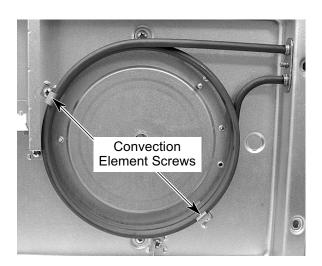
5. To remove the convection element:

- a) If not already done, remove the rear convection cover (see steps 3a & 3b on page 2-15).
- b) Remove the two screws and split washers from the ends of the element and remove the two wire connectors.



- c) Remove the mounting screw from the element bracket.
- d) If not already done, remove the convection mounting cover from the back of the unit (see step 4b on page 2-15).

e) Remove the two mounting screws from the convection element brackets and remove the element.



REMOVING THE TURNTABLE MOTOR

▲WARNING

Electrical Shock Hazard

Disconnect power before servicing.

Replace all panels before operating.

Failure to do so could result in death or electrical shock.

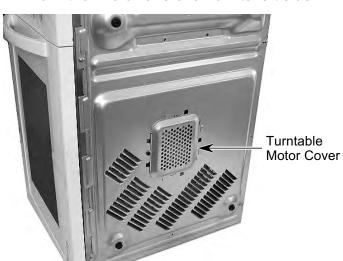
CAUTION: When you work on the microwave oven, be careful when handling the sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

- 1. Disconnect the electrical power to the microwave oven.
- 2. Remove the cabinet from the microwave oven (see page 2-2 for the procedure).
- 3. Open the microwave oven door and lift the turntable spindle off the turntable motor shaft.

Turntable Spindle

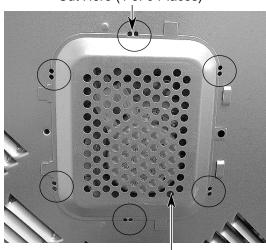


4. Turn the microwave oven on its left side.



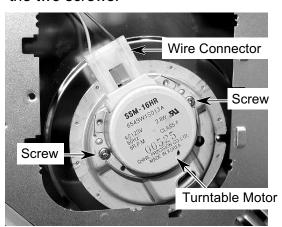
5. Use a pair of wire cutters and clip the six areas between the holes on the turntable motor cover, and remove the cover.

Cut Here (1 of 6 Places)

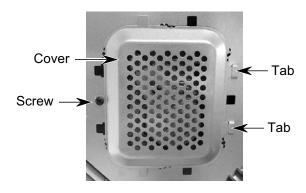


Turntable Motor Cover

6. Remove the wire connector from the turntable motor terminals, and then remove the two screws.



REASSEMBLY NOTE: To install the cover over the turntable motor, insert the two tabs into the slots and use a #6 screw to secure it.



REMOVING THE OVEN DOOR, THE SWITCH ACTUATORS, AND THE OUTER GLASS

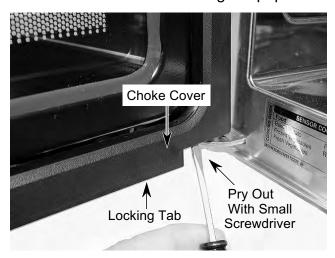
▲WARNING

Electrical Shock Hazard

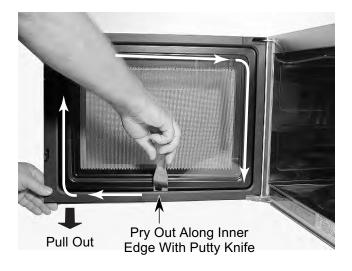
Disconnect power before servicing.
Replace all panels before operating.
Failure to do so could result in death or electrical shock.

CAUTION: When you work on the microwave oven, be careful when handling the sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

- 1. Disconnect the electrical power to the microwave oven.
- 2. Open the microwave oven door and remove the choke cover. To do this:
 - a) Use a small screwdriver and pry out on the indicated corner of the choke cover until the bottom locking tab pops out.



- b) Use a putty knife and pry out along the inner edge of the choke cover.
- c) Pull out on the cover to release all of the locking tabs, and remove the cover from the door.



3. To remove the oven door:

a) Lift the door and remove the bottom hinge pin from its bracket hole, then lower the door and remove the top hinge pin from its bracket hole.

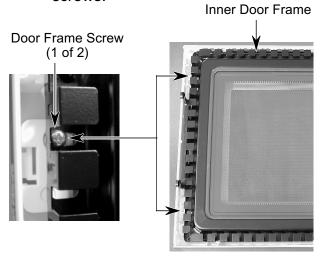


b) Place the door on a padded surface with the handle and outer glass facing down.

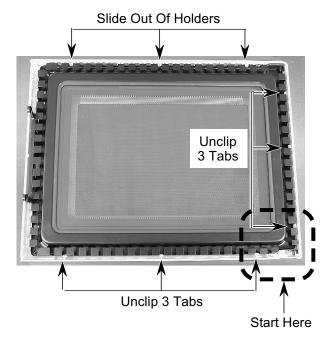
Continued on the next page.

4. To remove the switch actuators:

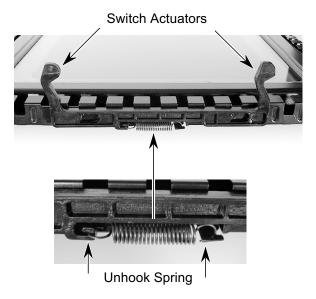
a) Remove the two inner door frame screws.



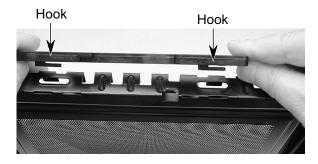
- b) Start at the lower right corner of the door and unclip the locking tabs along the bottom and right sides of the inner door frame while you lift the frame.
- c) When the inner door frame is free of the tabs, slide the frame out of the 3 top holders and remove it.



d) Remove the end of the spring from the actuators.

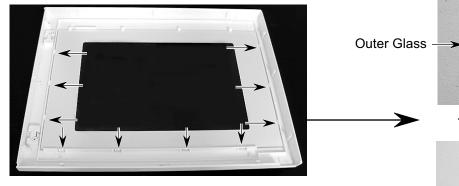


e) Unhook the actuators from the slots in the inner door frame.

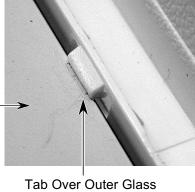


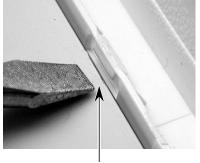
5 To remove the outer glass:

a) Use a screwdriver and push the 10 locking tabs (see the arrows below) back so they are not over the glass.



b) Lift the glass and remove it from the door frame.





Tab Pushed Back

- NOTES -

COMPONENT TESTING

Before testing any of the components, perform the following checks:

- The most common cause for control failure is corrosion on connectors. Therefore, disconnecting and reconnecting wires will be necessary throughout test procedures.
- All tests/checks should be made with a VOM or DVM having a sensitivity of 20,000 ohmsper-volt DC, or greater.
- Check all connections before replacing components, looking for broken or loose wires, failed terminals, or wires not pressed into connectors far enough.
- Any voltage checks must be made with all connectors attached to the boards.
- Resistance checks must be made with power cord unplugged from outlet, and with wiring harness or connectors disconnected.

THE TURNTABLE AND DAMPER MOTORS

AWARNING

Electrical Shock Hazard

Disconnect power before servicing.
Replace all panels before operating.
Failure to do so could result in death or electrical shock.

Electrical Shock Hazard

Disconnect power before servicing.
Replace all panels before operating.
Failure to do so could result in death or electrical shock.

TURNTABLE MOTOR



Refer to page 2-18 for the procedure for servicing the turntable motor.

- Disconnect the electrical power to the microwave oven.
- 2. Disconnect the wires from the turntable motor terminals.
- 3. Set the ohmmeter to the R x 1 scale.
- 4. Touch the ohmmeter leads to the motor terminals. The meter should indicate 25Ω .

DAMPER MOTOR



Refer to page 2-8 for the procedure for servicing the damper motor.

- 1. Disconnect the electrical power to the microwave oven.
- Disconnect the wires from the damper motor terminals.
- 3. Set the ohmmeter to the R x 1K scale.
- 4. Touch the ohmmeter leads to the motor terminals. The meter should indicate between 2900 and 3400 Ω .

THE FAN AND CIRCULATION MOTORS

AWARNING

Electrical Shock Hazard

Disconnect power before servicing.
Replace all panels before operating.
Failure to do so could result in death or electrical shock.

FAN MOTOR



Refer to page 2-13 for the procedure for servicing the fan motor.

- 1. Disconnect the electrical power to the microwave oven.
- 2. Disconnect the wires from the fan motor terminals.
- 3. Set the ohmmeter to the R x 1 scale.
- 4. Touch the ohmmeter leads to the motor terminals. The meter should indicate approximately 50 Ω .

AWARNING

Electrical Shock Hazard

Disconnect power before servicing.
Replace all panels before operating.
Failure to do so could result in death or electrical shock.

CIRCULATION MOTOR



Refer to page 2-15 for the procedure for servicing the circulation motor.

- 1. Disconnect the electrical power to the microwave oven.
- 2. Disconnect the wires from the circulation motor terminals.
- 3. Set the ohmmeter to the R x 1 scale.
- 4. Touch the ohmmeter leads to the motor terminals. The meter should indicate approximately 30 Ω .

THE LINE FUSE, HIGH VOLTAGE RECTIFIER (DIODE), & HIGH VOLTAGE CAPACITOR

Refer to page 2-12 for the procedure for servicing the line fuse, and page 2-13 for the high voltage rectifier (diode) and high voltage capacitor.

Disconnect the electrical power to the microwave oven.

Line Fuse W/Fuseholder

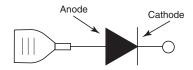


2. To test the line fuse:

- a) Unclip the fuse from the fuseholder.
- b) Set the ohmmeter to the R x 1 scale.
- c) Touch the ohmmeter leads to the ends of the fuse. The meter should indicate continuity if the fuse is good. If the fuse is open, the meter will indicate infinity.

High Voltage Rectifier (Diode)





3. To test the high voltage rectifier:

a) Disconnect the diode lead from the high voltage capacitor.

- b) Set the ohmmeter to the R x 10K scale.
- c) Touch the positive ohmmeter lead to the anode lead of the diode and the negative lead to the cathode. The meter should indicate continuity.

Reverse the ohmmeter leads on the diode and the meter should indicate infinity.

High Voltage Capacitor



4. To test the high voltage capacitor:

- a) Disconnect the diode and wires from the high voltage capacitor terminals.
- b) Set the ohmmeter to the R x 10K scale.
- c) Touch the ohmmeter leads to the capacitor terminals. The meter should indicate several thousand ohms, and gradually return to infinity.

THE CONVECTION ELEMENT & HUMIDITY SENSOR

AWARNING

Electrical Shock Hazard

Disconnect power before servicing.

Replace all panels before operating.

Failure to do so could result in death or electrical shock.

CONVECTION ELEMENT



Refer to page 2-15 for the procedure for servicing the convection element.

- 1. Disconnect the electrical power to the microwave oven.
- 2. Disconnect the wires from one of the element terminals.
- 3. Set the ohmmeter to the R x 1K scale.
- 4. Touch the ohmmeter leads to the terminals. The meter should indicate approximately 10 Ω .

AWARNING

Electrical Shock Hazard

Disconnect power before servicing.
Replace all panels before operating.
Failure to do so could result in death or electrical shock.

HUMIDITY SENSOR



Refer to page 2-7 for the procedure for servicing the humidity sensor.

- 1. Disconnect the electrical power to the microwave oven.
- Disconnect the humidity sensor connector from the electronic oven control at CN4.
- 3. Set the ohmmeter to the R x 1K scale.
- 4. Touch the ohmmeter leads to the following wires at the connector pin slots:

Black to red = 6200 Ω

Black to white = 3000 Ω

Red to white = 3000 Ω

THE CONVECTION THERMISTOR & OVEN THERMOSTAT

AWARNING

Electrical Shock Hazard

Disconnect power before servicing.
Replace all panels before operating.
Failure to do so could result in death or electrical shock.

CONVECTION THERMISTOR



Refer to page 2-15 for the procedure for servicing the convection thermistor.

- 1. Disconnect the electrical power to the microwave oven.
- Disconnect the convection thermistor connector from the electronic oven control at CN5.
- 3. Set the ohmmeter to the R x 10K scale.
- 4. Touch the ohmmeter leads to connector pin slots 1 and 3. The meter should indicate approximately 210 $K\Omega$.

AWARNING

Electrical Shock Hazard

Disconnect power before servicing.

Replace all panels before operating.

Failure to do so could result in death or electrical shock.

OVEN THERMOSTAT



Refer to page 2-9 for the procedure for servicing the oven thermostat.

- 1. Disconnect the electrical power to the microwave oven.
- Disconnect the wires from the oven thermostat terminals.
- 3. Set the ohmmeter to the R x 1 scale.
- 4. Touch the ohmmeter leads to the thermostat terminals. At room temperature, the meter should indicate continuity (closed contacts).

THE MAGNETRON & HIGH VOLTAGE TRANSFORMER

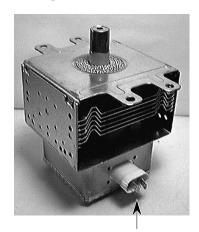
Electrical Shock Hazard

Disconnect power before servicing.

Replace all panels before operating.

Failure to do so could result in death or electrical shock.

MAGNETRON



Filament Terminals

Refer to page 2-10 for the procedure for servicing the magnetron.

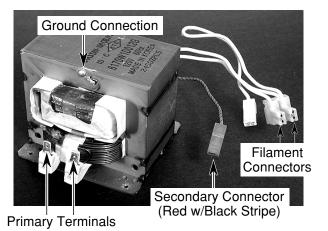
- 1. Disconnect the electrical power to the microwave oven.
- 2. Disconnect the wires from the filament terminals.
- 3. Set the ohmmeter to the R x 1 scale.
- 4. Touch the ohmmeter leads to the filament terminals. The meter should indicate less than 1 Ω .
- 5. Set the ohmmeter to the R x 100 scale.
- 6. Touch one of the ohmmeter leads to the chassis and the other lead to the filament terminals. The meter should indicate infinity (no continuity).

AWARNING

Electrical Shock Hazard

Disconnect power before servicing.
Replace all panels before operating.
Failure to do so could result in death or electrical shock.

HIGH VOLTAGE TRANSFORMER



Refer to page 2-11 for the procedure for servicing the high voltage transformer.

- Disconnect the electrical power to the microwave oven.
- Disconnect the high voltage transformer secondary and filament wire connectors from the high voltage capacitor and magnetron.
- 3. Disconnect the two wires from the primary terminals.
- 4. Set the ohmmeter to the R x 1 scale.
- 5. Touch the ohmmeter leads to the two primary terminals. The meter should indicate between .3 and .6 Ω .
- 6. Touch the ohmmeter leads to the two filament wire connectors. The meter should indicate less than 1 Ω .
- 7. Touch one ohmmeter lead to the red with a black stripe secondary wire, and the other lead to the ground connection on the transformer. The meter should indicate 0 Ω (short circuit).

THE DAMPER & DOOR INTERLOCK SWITCHES

AWARNING

Electrical Shock Hazard

Disconnect power before servicing.

Replace all panels before operating.

Failure to do so could result in death or electrical shock.

DAMPER & DOOR INTERLOCK SWITCHES



Refer to page 2-8 for the procedure for servicing the damper switch and page 2-5 for the door interlock switches.

- Disconnect the electrical power to the microwave oven.
- 2. Set the ohmmeter to the R x 1 scale.
- 3. To test the damper switch:
 - a) Disconnect the wires from the damper switch terminals.
 - b) Touch the ohmmeter leads to the two terminals. The meter should indicate infinity (no continuity).
 - c) Touch the ohmmeter leads to the switch terminals and press the switch actuator. The meter should indicate 0 Ω (continuity).

- 4. Use the following tests to check the desired door interlock switch:
 - a) <u>Primary switch:</u> Disconnect the wire connector from the terminals.
 - b) With the door closed, touch the ohmmeter leads to the switch terminals. The meter should indicate 0 Ω (continuity).
 - c) With the door open, touch the ohmmeter leads to the switch terminals. The meter should indicate infinity (no continuity).
 - a) **Monitor switch:** Disconnect the wires from the terminals.
 - b) With the door closed, touch the ohmmeter leads to the switch terminals. The meter should indicate infinity (no continuity).
 - c) With the door open, touch the ohmmeter leads to the switch terminals. The meter should indicate 0 Ω (continuity).
 - a) **Secondary switch:** Disconnect the wire connector from the terminals.
 - b) With the door closed, touch the ohmmeter leads to the switch terminals. The meter should indicate 0 Ω (continuity).
 - c) With the door open, touch the ohmmeter leads to the switch terminals. The meter should indicate infinity (no continuity).

Door Switch	Door Closed	Door Open
Primary	Continuity	No Continuity
Monitor	No Continuity	Continuity
Secondary	Continuity	No Continuity

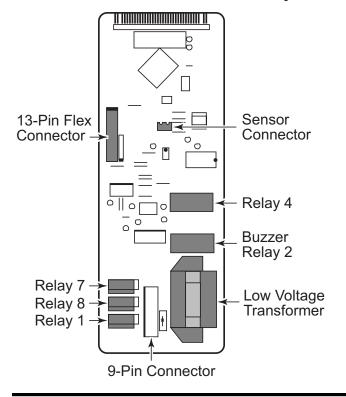
- NOTES -

DIAGNOSIS & TROUBLESHOOTING

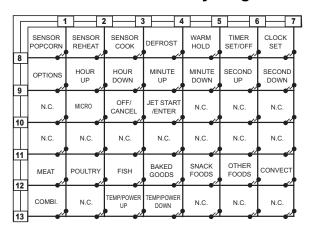
TOUCH PANEL CONTINUITY TEST

- 1. Remove the electronic oven control from the microwave oven (see page 2-3 for the procedure).
- 2. Set the ohmmeter to the R x 1 scale.
- 3. Refer to the "Touch Panel Continuity Diagram," and touch the ohmmeter leads to the indicated conducting paths on the "Flex Circuit Connector Diagram." Press the keypad indicated in the chart for the circuit under test. The meter should indicate continuity if the switch is working properly.

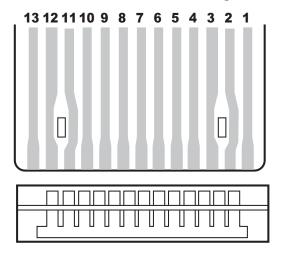
Electronic Oven Control Board Layout



Touch Panel Continuity Diagram



Flex Circuit Connector Diagram



MICROWAVE OVEN POWER OUTPUT TEST

The power output of the magnetron can be measured by the following test: (for accurate results, the line voltage must be 120 VAC and the oven cavity must be clean).

- Fill a glass measuring cup with one cup (250 ml) of "lukewarm" (68°F / 20°C) to (77°F / 25°C) tap water.
- 2. Place the cup of water in the center of the oven.
- 3. Operate the microwave oven at HIGH power.
- 4. The water should boil within 3-1/2 to 4 minutes.

NOTE: Times longer than 4 minutes may indicate that the operating voltage is lower than 110 volts, or that there is a problem with the oven.

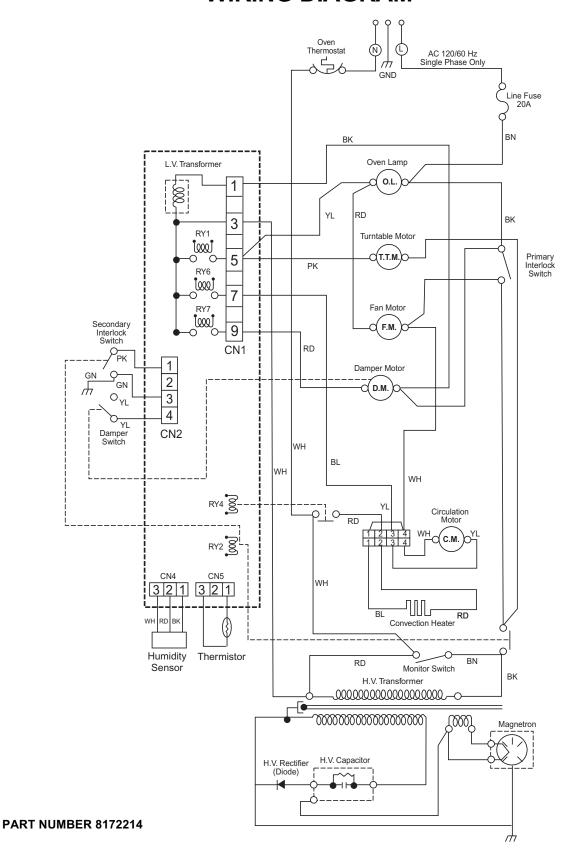
TROUBLESHOOTING CHART

PROBLEM	CAUSE
The microwave oven will not run.	 The door is not firmly closed and latched. The START keypad was not touched. The directions were not exactly performed. An earlier programmed operation is still running. The time was not set after touching the MICRO keypad.
Microwave cooking times seem too long.	 The electrical supply to the wall outlets is low, or is lower than normal. Check to find out if the line voltage is low. The COOK POWER is not at the recommended setting. Larger amounts of food need longer cooking times.
The turntable will not turn.	 The turntable is not correctly in place. Make sure that the turntable has the correct-side facing up and is sitting securely on center spindle. The support is not operating correctly. Remove the turntable, check that the turntable spindle is properly in place, and restart the oven.
The display shows a time counting down, but the oven is not cooking.	 The oven door is not closed completely. The control is set as a kitchen timer. Touch TIMER SET/OFF to cancel the Minute Timer.
The programming tone cannot be heard.	The tones have been disabled. Refer to the "Use and Care Guide" for the procedure on setting the tones.
The fan seems to be run- ning slower than normal.	The oven has been stored in a cold area. The fan will run slower until the oven warms up to the normal room tempera- ture.
The display indicates ":".	A power failure has occurred. Reset the clock.

If none of the items above is causing the problem, refer to "Requesting Assistance or Service" on page 6-1.

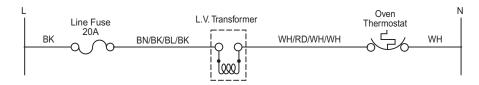
WIRING DIAGRAM & STRIP CIRCUITS

WIRING DIAGRAM

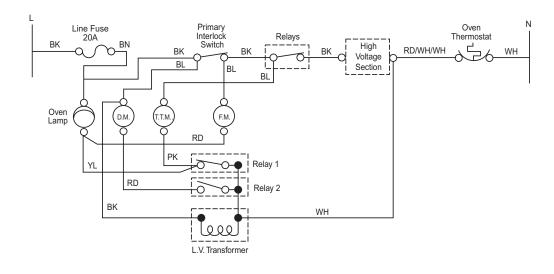


STRIP CIRCUITS

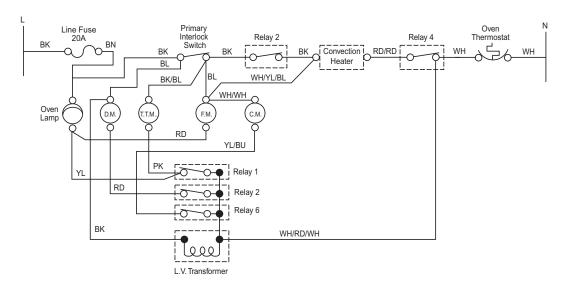
MICROWAVE PLUGGED IN



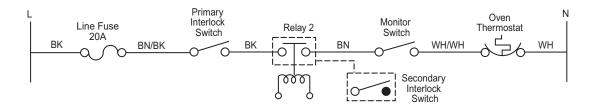
MICROWAVE COOKING ON



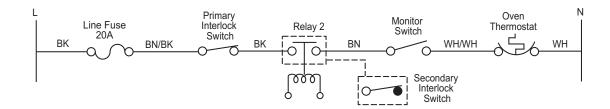
MICROWAVE CONVECTION COOKING ON



MICROWAVE DOOR OPEN



MICROWAVE DOOR CLOSED



- NOTES -

TECH TIPS

REQUESTING ASSISTANCE OR SERVICE

To avoid unnecessary service calls, please check the "Diagnosis & Troubleshooting" on page 4-1.

If you need assistance or service, call the Whirlpool Customer Interaction Center toll free at:

1-800-253-1301.

Our consultants are available to assist you.

When calling, please know the purchase date, and the complete model and serial number of your appliance (see the "A Note to You" section in the Use & Care Guide). This information will help us better respond to your request.

Our consultants provide assistance with:

- Features and specifications on our full line of appliances.
- Installation information.
- · Accessory and repair parts sales.
- Specialized customer assistance (Spanish speaking, hearing impaired, limited vision, etc.).
- Referrals to local dealers, service companies, and repair parts distributors.

Whirlpool-designated service technicians are trained to fulfill the product warranty, and provide after-warranty service, anywhere in the United States. To locate the Whirlpool designated service company in your area, you can also look in your telephone directory Yellow Pages.

If you need further assistance, you can write to Whirlpool Corporation with any questions or concerns at:

Whirlpool Brand Home Appliances Customer Interaction Center c/o Correspondence Dept. MD 8020 553 Benson Road Benton Harbor, MI 49022-2400

Please include a daytime phone number in your correspondence.

WHIRLPOOL MICROWAVE-CONVECTION OVEN WARRANTY

LENGTH OF WARRANTY:	WHIRLPOOL WILL PAY FOR:	WHIRLPOOL WILL NOT PAY FOR:
ONE-YEAR FULL WARRANTY From Date of Purchase.	FSP ® Replace- ment parts and repair labor costs to correct defects in materials or workmanship. Service must be provided by a Whirlpool-desig- nated servicing company.	 A. Service calls to: Correct the installation of the microwave-convection oven. Instruct you how to use the microwave-convection oven. Replace house fuses or correct house wiring. Replace owner-accessible light bulbs. B. Repairs when microwave-convection oven is used in other than normal single-family household use.
LIMITED FOUR- YEAR WAR- RANTY Second through fifth year from Date of Purchase.	FSP ® Replacement magnetron tube on microwave-convection ovens if defective in materials or workmanship.	 C. In-home service. Your microwave-convection oven must be taken to a Whirlpool-designated service company, except when your microwave oven is installed over an approved oven using an approved built-in kit. D. Damage to the microwave-convection oven resulting from accident, alteration, misuse, abuse, fire, flood, acts of God, or use of products not approved by Whirlpool Corporation. E. Any labor costs during the limited warranty. F. Repairs to parts or systems resulting from unauthorized modifications made to the appliance. G. Replacement parts or repair labor costs for units operated outside the United States.

WHIRLPOOL CORPORATION SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. Some states do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion or limitation may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Outside the 50 United States, this warranty does not apply. Contact your authorized Whirlpool dealer to determine if another warranty applies.

If you need service, first see "Diagnosis & Troubleshooting" on page 4-1. After checking "Diagnosis & Troubleshooting," additional help can be found by checking the "Requesting Assistance or Service" on the previous page, or by calling our Customer Interaction Center telephone number, **1-800-253-1301**, from anywhere in the U.S.A.



