

Service

This manual is to be used by qualified appliance technicians only. Maytag does not assume any responsibility for property damage or personal injury for improper service procedures done by an unqualified person.

2004 Over the Range Domestic Microwaves

This Base Manual covers general information

Refer to individual Technical Sheet for information on specific models

This manual includes, but is not limited to the following:

UMV1152BAB/W/Q/S MMV1153AAB/W AMV1162AAB/W/Q/S AMV4204AAB/W/Q MMV4205AAB/W/Q/S AMV5164AAB/W/Q/S AMV5164ACB/W/S MMV5165AAB/W/Q/S AMV5207AAB/W/Q/S MMV5207AAB/W/Q/S JMV8208AAB/W/Q/S JMV8208ACB/S



16023056 June 2004

Important Information

Pride and workmanship go into every product to provide our customers with quality products. It is possible, however, that during its lifetime a product may require service. Products should be serviced only by a qualified service technician who is familiar with the safety procedures required in the repair and who is equipped with the proper tools, parts, testing instruments and the appropriate service manual. **REVIEW ALL SERVICE INFORMATION IN THE APPROPRIATE SERVICE MANUAL BEFORE BEGINNING REPAIRS.**

Important Notices for Consumers and Servicers

WARNING

To avoid risk of serious injury or death, repairs should not be attempted by an unauthorized service personnel, dangerous conditions (such as exposure to electrical shock) may result.

Maytag will not be responsible for any injury or property damage from improper service procedures. If performing service on your own product, assume responsibility for any personal injury or property damage which may result.

To locate an authorized servicer, please consult your telephone book or the dealer from whom you purchased this product. For further assistance, please contact:

Customer Service Support Center

CAIR Center	
Web Site	Telephone Number
WWW.AMANA.COM	
WWW.MAYTAG.COM	
WWW.JENNAIR.COM	1-800-536-6247
CAIR Center in Canada Amana Canada Product	

Recognize Safety Symbols, Words, and Labels



DANGER—Immediate hazards which WILL result in severe personal injury or death.

WARNING

WARNING—Hazards or unsafe practices which COULD result in severe personal injury or death.

CAUTION—Hazards or unsafe practices which **COULD** result in minor personal injury or product or property damage.

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CAUTION

Read the following information to avoid possible exposure to microwave radiation:

The basic design of the Maytag and Amana microwave oven makes it an inherently safe device to both use and service. However, there are some precautions which should be followed when servicing the microwave oven to maintain this safety. These are as follows:

- 1. Always operate the unit from an adequately grounded outlet. Do not operate on a two-wire extension cord.
- 2. Before servicing the unit (if unit is operable), perform the microwave leakage test.
- 3. The oven should never be operated if the door does not fit properly against the seal, the hinges or hinge bearings are damaged or broken; the choke is damaged, (pieces missing, etc.); or any other visible damage can be noted. Check the choke area to ensure that this area is clean and free of all foreign matter.
- 4. If the oven operates with the door open and produces microwave energy, take the following steps.
 - A. Tell the user not to operate the oven.
 - B. Contact Maytag immediately.
- 5. Always have the oven disconnected when the outer case is removed except when making the "live" tests called for in the Service Manual. Do not reach into the equipment area while the unit is energized. Make all connections for the test and check them for tightness before plugging the cord into the outlet.
- 6. Always ground the capacitors on the magnetron filter box and H. V. Capacitor with an insulated-handle screwdriver before working in the high voltage area of the equipment compartment. Some types of failures will leave a charge in these capacitors and the discharge could cause a reflex action which could make you injure yourself.

- In the area of the transformer, capacitor, diode, and magnetron there is HIGH VOLTAGE. When the unit is operating, keep this area clean and free of anything which could possibly cause an arc or ground, etc.
- 8. Do not for any reason defeat the interlock switches. There is no valid reason for this action at any time; nor will it be condoned by Maytag.
- IMPORTANT: Before returning a microwave to a customer, check for proper switch interlock action. The primary and secondary switches MUST open when the door is actuated. The monitor switch MUST close at a 1/4 inch when the door is opened.
- 10. Before returning a microwave to a customer, verify the door spacing is reasonably uniform along the top, bottom, and sides, and that it measures 1/8 inch or less.
- 11. The microwave oven should never be operated with:
 - Any components removed and/or bypassed.
 - Any of the safety interlocks failing.
 - Any of the seal surfaces failing, missing, or damaged.
- 12. To ensure that the unit does not emit excessive microwave leakage and to meet the Department of Health Human Service guidelines, check the oven for microwave leakage using Narda Model 8100, 8200, Holaday HI1500, HI1501 or Simpson 380M leakage monitor as outlined in the instructions. The maximum leakage level allowed is 4mW/cm².
- 13. If servicer encounters an emission reading over 4 mW/cm² the servicer must cease repair and contact the Maytag Service Department immediately for further direction. Maytag will contact the proper Government Agency upon verification of the test results.

Microwave Leakage Testing

WARNING

Check for radiation leakage after servicing. Should the leakage be more than 4mW/cm² inform Maytag immediately. After repairing or replacing any radiation safety device, keep a written record for future reference, as required by D.H.H.S. and HEW regulations. This requirement must be strictly observed. In addition, the leakage reading must be recorded on the service repair ticket while in the customer's home.

Equipment

- · Electromagnetic radiation monitor
- 600 cc glass beaker

Procedure For Measuring Radiation Leakage

Note before measuring -

- Do not exceed meter full scale deflection. Leak monitor should initially be set to the highest scale.
- To prevent false readings the test probe should be held by the grip portion of the handle only.
- The scan speed is equal to one inch per antenna revolution or one inch per second if antenna speed is unknown.
- Areas to be checked are all door seal areas and any venting parts.
- Leakage with the outer panel removed...4mW/cm² or less.
- Leakage for fully assembled oven with door normally closed ...4mW/cm² or less.
- Leakage for a fully assembled oven (before the latch switch (primary) is interrupted) while pulling the door ... 4mW/cm² or less.
- 1 . Pour 275 \pm 15 cc (9 oz \pm 1/2 oz) of 20 \pm 5°C (68 \pm 9°F) water in a beaker which is graduated to 600 cc and place the beaker in the center of oven.
- 2. Set the radiation monitor to 2450 MHz and use it following the manufacturer's recommended test procedure to assure correct results.
- 3. While measuring the leakage, always use the two inch (5 cm) spacer supplied with the probe.
- 4. Press the start pad or turn on the timer and with the magnetron oscillating, measure the leakage by holding the probe perpendicular to the surface being measured.

Measurement With the Outer Panel Removed



Avoid contacting any high voltage components.

Whenever you replace the magnetron, measure for radiation leakage before the outer panel is installed and after all necessary components are replaced or adjusted. Special care should be taken in measuring around the magnetron.

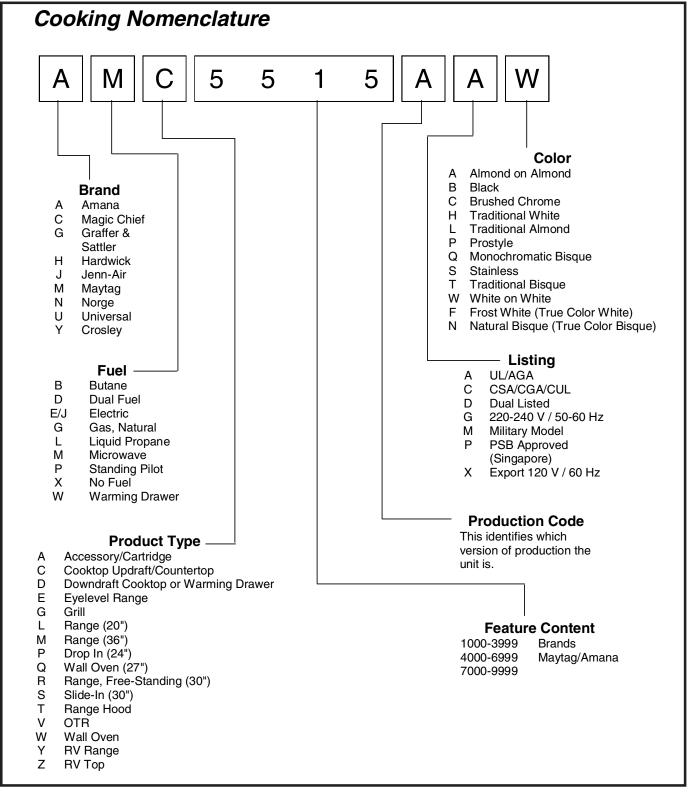
Measurement With a Fully Assembled Oven

After all components including the outer panel are fully assembled, measure for radiation leakage around the door periphery, the door viewing window, the exhaust opening, and air inlet openings.

Record Keeping and Notification After Measurement

- 1. After any adjustment or repair to a microwave oven, a leakage reading must be taken. Record this leakage reading on the repair ticket even if it is zero.
- 2. A copy of the repair ticket and the microwave leakage reading should be kept by the repair facility.

This manual provides basic instructions and suggestions for handling, installing, and servicing microwave ovens. The directions, information, and warnings in this manual are developed from experience with, and careful testing of the product. If the unit is installed according to the Installation Instructions, it will operate properly and will require minimal servicing. A unit in proper operating order ensures the consumer all the benefits provided by efficient microwave cooking. This manual contains information needed by authorized service technicians to install and service the microwave pertaining to this manual. There maybe, however some information which needs further explanation. Refer to individual Installation Instructions, Use and Care, Technical Sheets, or toll free technical support line to answer questions from authorized service technicians.



Specifications

Refer to individual Technical Sheet for specification information.

Placement of the Oven

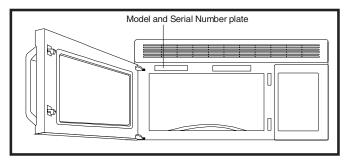
This microwave can be easily placed in the kitchen, family room, or anywhere else in the house. Place the oven on a flat surface such as a kitchen countertop or a specially designed microwave oven cart. Do not place oven above a gas or electric range. Free air flow around the oven is important.

Do Not Block Air Vents

All air vents must be kept clear during cooking. If air vents are covered during operation the oven may overheat. In this case, a sensitive thermal safety device automatically turns the oven off. The oven will be inoperable until the oven has cooled sufficiently.

Location of Model Number

To request service information or replacement parts, the service center will require the complete model, serial, and manufacturing number of your microwave oven. The number is located inside the oven door cavity as shown in the illustration below.



Model Identification

Complete enclosed registration card and promptly return. If registration card is missing:

- For Amana product call 1-800-843-0304 or visit the Web Site at www.amana.com
- For Maytag product call 1-800-688-9900 or visit the Web Site at www.maytag.com
- For Jenn-Air product call 1-800-536-6247 or visit the Web Site at www.jennair.com
- For product in Canada call 1-866-587-2002 or visit the Web Sites at www.amana.com, www.maytag.com or www.jennair.com

When contacting provide product information located on rating plate.

Record the following:	
Model Number:	
Manufacturing Number:	
Serial or S/N Number:	
Date of purchase:	
Dealer's name and address:	

Service

Keep a copy of sales receipt for future reference or in case warranty service is required. To locate an authorized servicer:

- For Amana product call 1-800-628-5782 or visit the Web Site at www.amana.com
- For Maytag/Jenn-Air product call 1-800-462-9824 or visit the Web Sites at www.maytag.com or www.jennair.com
- For product in Canada call 1-866-587-2002 or visit the Web Sites at www.amana.com, www.maytag.com or www.jennair.com

Warranty service must be performed by an authorized servicer. We also recommend contacting an authorized servicer, if service is required after warranty expires.

Parts and Accessories

Purchase replacement parts and accessories over the phone. To order accessories for your product call:

- For Amana product call 1-877-232-6771 or visit the Web Site at www.amana.com
- For Maytag/Jenn-Air product call 1-800-462-9824 or visit the Web Sites at www.maytag.com or www.jennair.com
- For product in Canada call 1-866-587-2002 or visit the Web Sites at www.amana.com, www.maytag.com or www.jennair.com

Extended Service Plan

We offer long-term service protection for this new oven.

- Asure[™] Extended Service Plan is specially designed to supplement Amana's strong warranty. This plan covers parts, labor, and travel charges. Call 1-866-232-6244 for information.
- Dependability Plus[™] Extended Service Plan is specially designed to supplement Maytag's and Jenn-Air's strong warranty. This plan covers parts, labor, and travel charges.

Call 1-800-925-2020 for information.

Radio Interference

- 1. Microwave oven operation may interfere with the radio or TV reception.
- 2. When there is interference, it may be reduced or eliminated by taking the following measures:
 - Clean the door and the seal surface of the oven.
 - Reorient the receiving antenna of the radio or TV.
 - Relocate the microwave oven in relation to the radio or TV.
 - Move the microwave away from the receiver.
 - Plug the microwave into a different outlet so that the microwave and receiver are on different branch circuits.
- 3. 120 VAC, 60 Hz household outlet. Be sure the circuit is at least 15 or 20 A and the microwave oven is the only appliance on the circuit. It is not designed for 50 Hz or any circuit other than a 120 VAC, 60 Hz circuit.
 - Electrical Rating of the Oven: 120 VAC, 60 Hz.

Electrical Requirements

The oven is designed to operate on a Standard 120 VAC, 60 HZ household outlet.

Cleaning

Before cleaning the oven, unplug the power supply cord. If impossible, open the oven door to prevent an accidental oven start.

Inside of the Oven

Use a damp cloth to wipe out crumbs and spillovers. It is important to keep the area between door and cavity front clean to assure a tight seal. Remove greasy spatters with a sudsy cloth, then rinse and dry. Do not use harsh detergent or abrasive cleaners.

Glass Tray

The glass tray can be washed by hand or in the dishwasher.

Control Panel

Wipe with a damp cloth followed immediately by a dry cloth. The Child Lock feature is also useful when cleaning the control panel. Child Lock prevents accidental programming when wiping the control panel (if so equipped).

Door

If steam accumulates inside or around the outside of the oven door, wipe the panel with a soft cloth. This may occur when the microwave oven is operated under high humidity conditions and in no way indicates a malfunction of the unit.

Outside Oven Surface

Clean with damp cloth. To prevent damage to the operating parts inside the oven, the water should not be allowed to seep into the ventilation openings.

After cleaning the oven, be sure that the rotating ring and the glass tray are in the right position. Press the STOP/ CLEAR pad twice to reset any accidental key setting.

Grounding Instructions

Λ

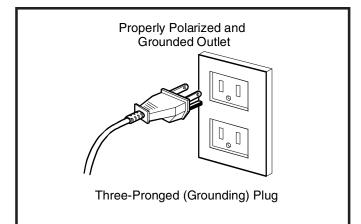
This appliance must be grounded. If an electrical short circuit occurs, grounding reduces the risk of electric shock by providing an escape wire for the electric current. The cord for this appliance has a grounding wire with a grounding plug. Put the plug into an outlet that is properly installed and grounded.

WARNING

To avoid risk of electric shock, personal injury or death, use grounding plug properly.

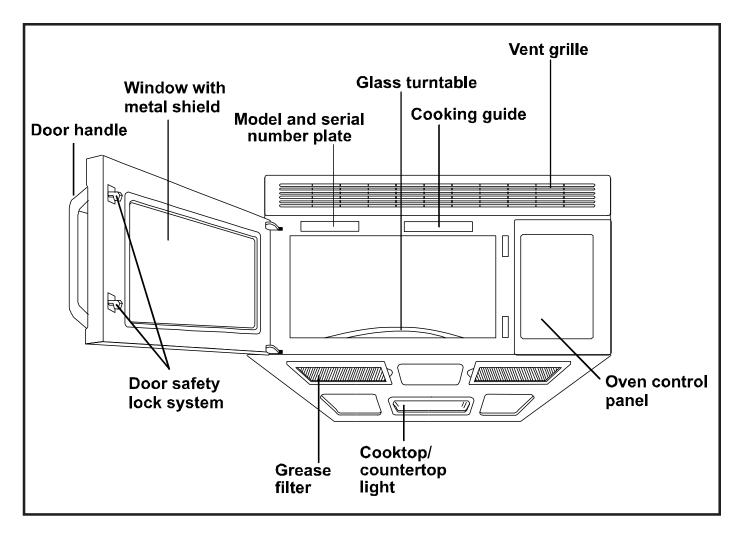
Ask a qualified electrician if you do not understand the grounding instructions or if you wonder whether the appliance is properly grounded.

Keep the electrical power cord dry and do not pinch or crush it in any way.



For a permanently connected appliance: This appliance 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 appliance.

Microwave Oven Description

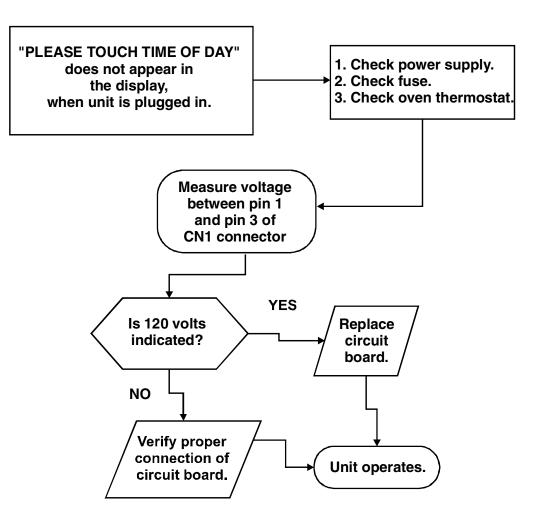


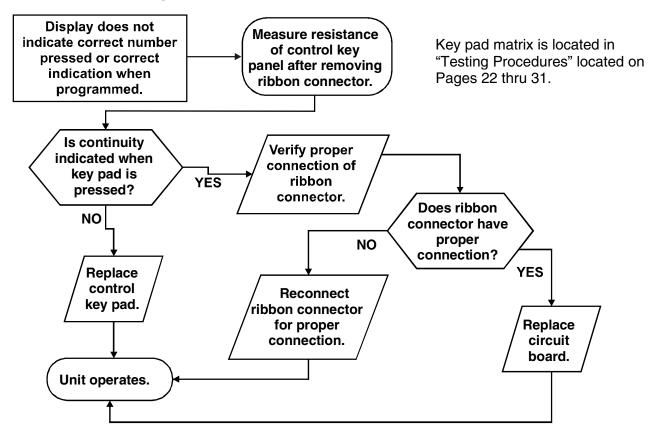
WARNING

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

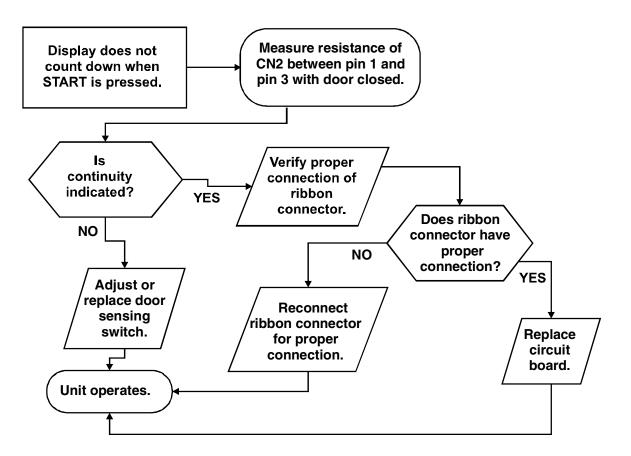
CAUTION

- Verify proper grounding before checking for trouble.
- Be careful of the high voltage circuit.
- Discharge the high voltage capacitor.
- When checking the continuity of the switches or of the high voltage transformer, disconnect one lead wire from these parts and then check continuity with the AC plug removed. To do otherwise may result in a false reading or damage to your meter.
- Do not touch any part of the circuit on the printed circuit board, since static electric discharge may damage the control panel. Always touch yourself to ground while working on this panel to discharge any static charge built up in your body.

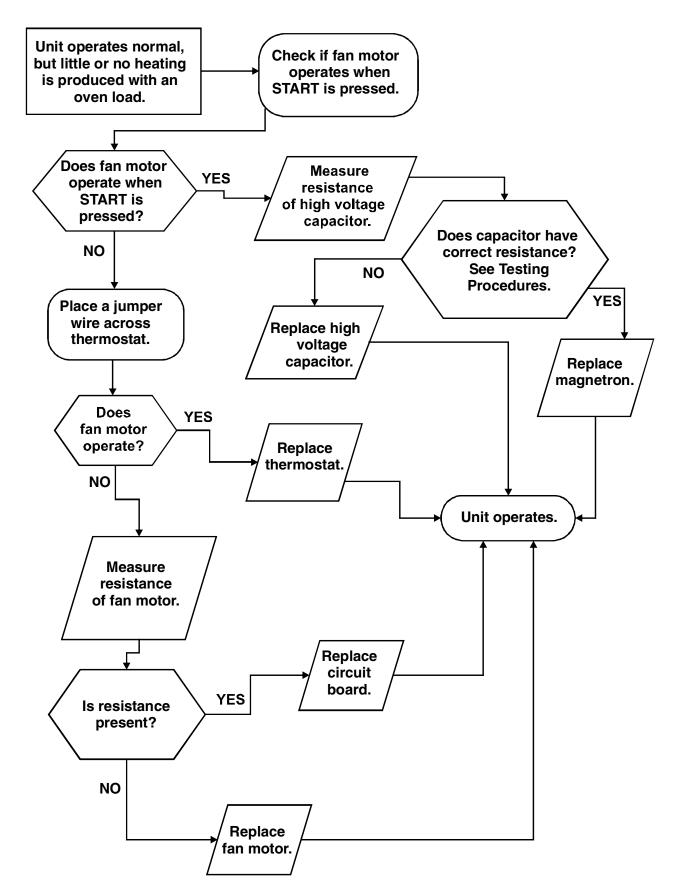




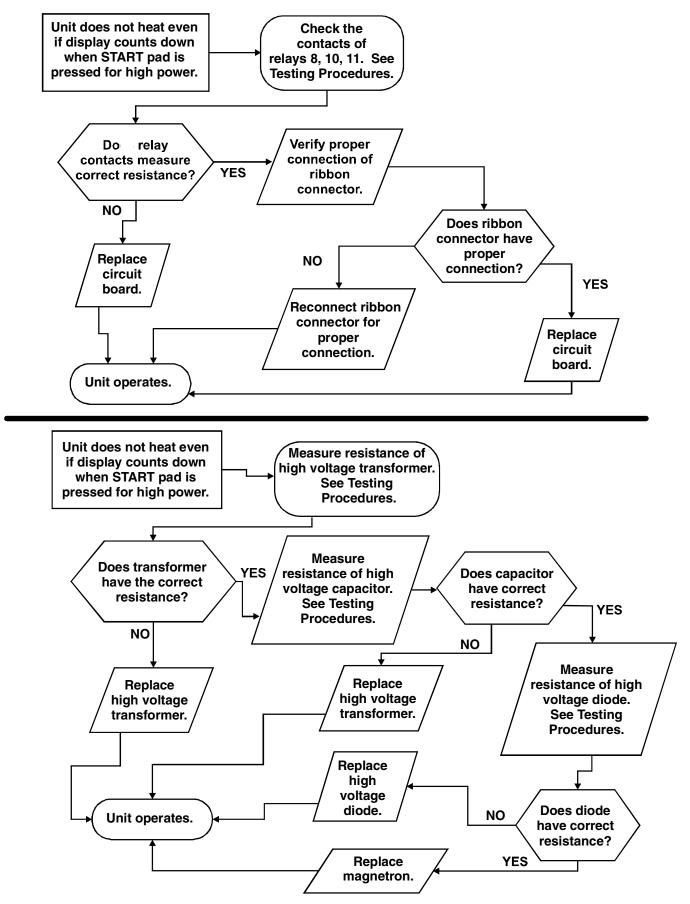
Check Touch Keypad



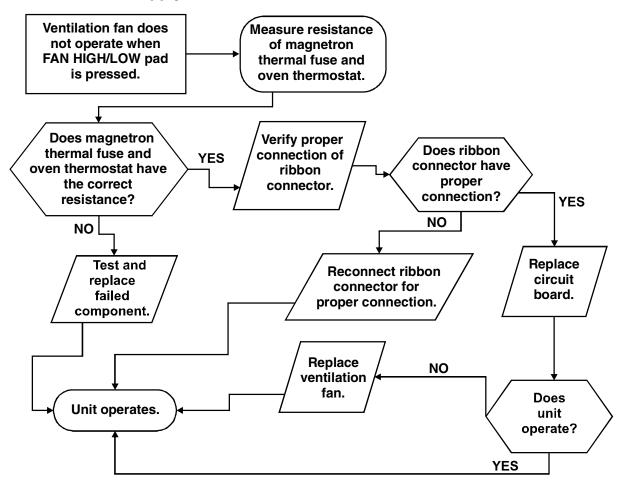
Check Air Vents

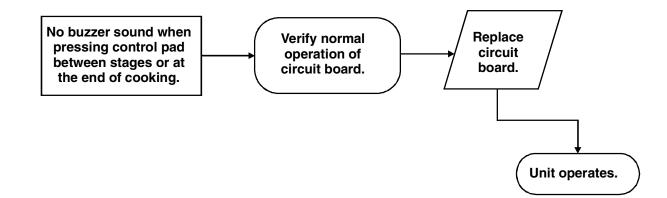


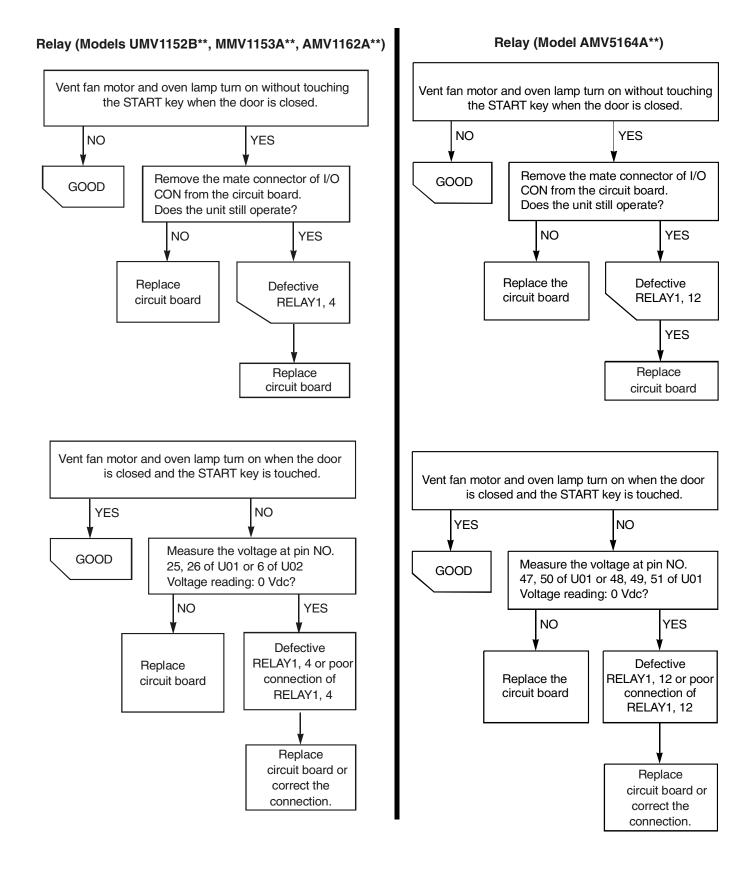
Check Primary/Secondary Interlock Switches and Thermostat



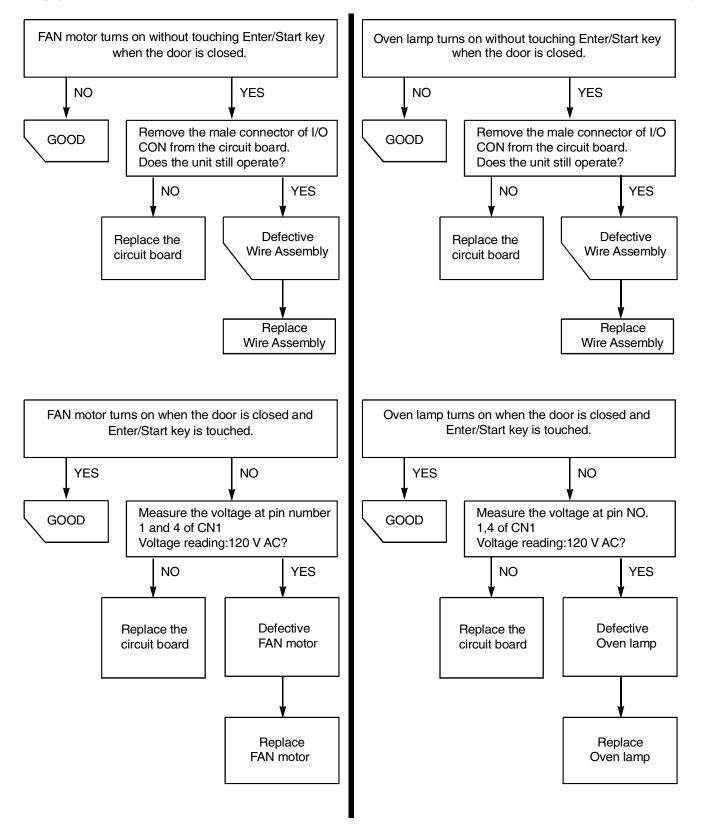
Check Power Supply and Fuse







Relay (Models AMV4204A**, MMV4205A**, MMV5165A**, AMV5206A**, MMV5207A**, JMV8208A**)



Oven Error Code Display

Touchpad Display	Error Mode
F1	Thermistor Open
F2	Thermistor Short Before Cooking
F3	Thermistor Short After Cooking
F4	Sensor Open
F5	Damper Switch Sensing Error

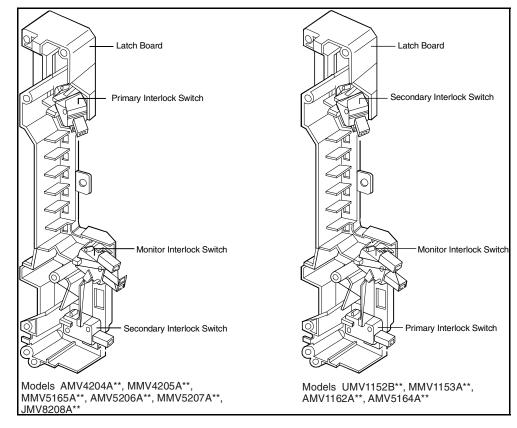
Checkout Procedure: Fuse

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

NOTES: Replace blown fuse with 20 Amp fuse.

If the fuse is blown due to an improper switch operation, replace all interlock switches, PCB Ass'y and the fuse simultaneously, and ensure they are connected properly.

Check for microwave energy leakage after replacing interlock and monitor switches.



Checkout Procedure: Circuit Board

PROBLEM	CAUSE
The START function fails to operate, but the high voltage systems, interlock/monitor switches and door sensing/relays	Defective Control Printed Circuit Board Assembly
all test good.	
Proper temperature is not obtained.	
Buzzer does not sound or sounds continuously.	
Some segments of 1 or more digits display on the touch	
panel, or display when they should not.	

NOTE: Check for microwave energy leakage after replacing Printed Circuit Board Assembly.

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

WARNING

Illustration	Component	Test Procedure		Results	
	High voltage	Discharge Capacitor			
UMV1152B**, MMV1153A**, AMV1162A**, AMV5164A**	transformer 120 V Primary 0 V G Filament	Disconnect connector and measure continuity with meter on R x 1 scale: Secondary Filament Primary (Measure at room temperature, or 70° F/ 22°C) Measure continuity with meter on "High" scale: Primary winding to ground Filament winding to ground	Approximately 65-120 Ω Less than 1 Ω Less than 1 Ω Infinite Ω Infinite Ω		
AMV4204A**, MMV4205A**, MMV5165A**, AMV5206A**, MMV5207A**, JMV8208A**	High voltage transformer 120 V Primary 0 V Filament	Discharge Capacitor Disconnect connector and measure continuity with meter on R x 1 scale: Secondary Filament Primary (High & Low) (Measure at room temperature, or 70° F/ 22°C) Measure continuity with meter on "High" scale: Primary winding to ground Filament winding to ground	Approximately 50-120 Ω Less than 1 Ω Less than 1 Ω Infinite Ω		
All Models	Magnetron	Discharge Capacitor Remove wires from magnetron and connect ohmmeter to terminals. Also check between each terminal and ground.	Between Terminals: Less than 1 Ω Each terminal to ground: Infinite resistance. Note: This test is not conclusive. If oven does not heat and all other components test good replace the magnetic and retect		Infinite usive. If other
All Models	High Voltage Capacitor	Discharge Capacitor Remove wires from capacitor terminals and connect ohmmeter, set on highest resistance scale to terminals. Also check between each terminal and capacitor case.	magnetron and retest. Between Terminals: Meter should momentarily indicate several ohms, then return to infinity. If no deflection occurs, or if continuous deflection occurs, replace capacitor. Terminal to Case: Infinite resistance		al ohms, deflection ection
All Models	High Voltage Diode	Discharge Capacitor Remove diode lead from capacitor and connect ohmmeter. Reverse leads for second test.	Infinite resistance should be measured in one direction and continuity in the opposite direction. NOTE: Ohmmeter must contain a battery of 6 volts minimum.		e measured ity in the
UMV1152B**, MMV1153A**, AMV1162A**	Relay 2	Disconnect the leads. Place water in the oven and select power levels 1 through 10. Check continuity between the terminals of the relays.	Power Level 1 2 3 4 5 6 7 8 9	Cycle On (Continuity) 4 sec 6 sec 8 sec 10 sec 12 sec 14 sec 16 sec 18 sec 20 sec	Cycle Off (Open) 18 sec 16 sec 14 sec 12 sec 10 sec 8 sec 6 sec 4 sec 2 sec 2 sec

WARNING

Illustration	Component	Test Procedure		Results	
$\overline{}$	Relay 7	Disconnect the leads. Place water in the	Power Level	Cycle On	Cycle Off
		oven and select power levels 1 through		(Continuity)	(Open)
		10. Check continuity between the	1	4 sec	18 sec
	1 1	terminals of the relays.	2	6 sec	16 sec
	لبا		3	8 sec	14 sec
AMV4204A**,			4	10 sec	12 sec
MMV4205A**,			5	12 sec	10 sec
AMV5164A**,			6 7	14 sec	8 sec
MMV5165A**,				16 sec	6 sec
AMV5206A**,			8	18 sec 20 sec	4 sec
MMV5207A**,			9 10	20 sec 22 sec	2 sec 0 sec
JMV8208A**			10	22 560	0 Sec
AMV4204A**, MMV4205A**, MMV5165A**, AMV5206A**, MMV5207A**, JMV8208A**	Primary Interlock Switch Test (Top Switch)	Measure resistance between terminals 1 and 2: Door Open Door Closed	Open Continuity		
UMV1152B**, MMV1153A**, AMV1162A**, AMV5164A**	Primary Interlock Switch Test (Bottom Switch)	Measure resistance between terminals 1 and 2: Door Open Door Closed	Open Continuity		
AMV4204A**, MMV4205A**, MMV5165A**, AMV5206A**, MMV5207A**, JMV8208A**	Secondary Interlock Switch Test (Bottom Switch)	Measure resistance between terminals 1 and 2: Door Open Door Closed	Open Continuity		
UMV1152B**, MMV1153A**, AMV1162A**, AMV5164A**	Secondary Interlock Switch Test (Top Switch)	Measure resistance between terminals 1 and 2: Door Open Door Closed	Open Continuity		
All Models	Interlock Monitor Switch Test (Middle Switch)	Measure resistance between terminals 1 and 2: Door Open Door Closed	Continuity Open		

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

WARNING

Illustration	Component	Test Procedure	Results
MMV5165A**, MMV5207A**, JMV8208A**	Magnetron Thermal Cut-Out (Thermostat)	Disconnect all wires from TCO. Measure resistance across terminals. Magnetron TCO	Open at 293°F (145°C) and closed at 140°F (60°C)
AMV4204A**, MMV4205A**, AMV5206A**	Magnetron Thermal Cut-Out (Thermostat)	Disconnect all wires from TCO. Measure resistance across terminals. Magnetron TCO	Open at 302°F (150°C) and closed at 32°F (0°C)
AMV4204A**, MMV4205A**, MMV5165A**, AMV5206A**, AMV5207A**, JMV8208A**	Oven Thermal Cut- Out (Thermostat)	Disconnect all wires from TCO. Measure resistance across terminals. Oven TCO	Open at 230°F (110°C) and closed at 0°F (32°C)
UMV1152B**, MMV1153A**, AMV1162A**, AMV5164A**	Oven Thermal Cut- Out (Thermostat) (Non-resettable)	Disconnect all wires from TCO. Measure resistance across terminals. Oven TCO	Open at 194°F (90°C)
All Models	Lamp receptacle	Test continuity of receptacle terminals	Indicates continuity if bulb is good and installed.
AMV4204A**, MMV4205A**, AMV5206A**, MMV5207A**, JMV8208A**	Fan motor	Remove all wires from motor. Measure resistance	(All measurements approximate) Across terminals A & C: 35-50 Ω Across terminals A & B: 5-15 Ω Infinite or several, motor is defective.
MMV5165A**	Fan motor	Remove all wires from motor. Measure resistance	(All measurements approximate) Across terminals A & C: 85-105 Ω Across terminals A & B: 15-25 Ω Infinite or several, motor is defective.

WARNING

Illustration	Component	Test Procedure	Results
	Stirrer motor	Remove all wires from motor.	
		Measure resistance across coil	Approximately 120-135 Ω (70°F, 20°C)
MMV5165A**			Infinite Ω (70°F, 20°C), motor is defective.
	Turntable Drive Motor	Measure voltage across terminals	Approximately 120 VAC
	(Synchronous motor)	Measure resistance across terminals	Approximately 2-4 Ω
All Models			
	Ventilation Motor	Remove all wires Measure resistance across terminals	High Speed: Approximately 60-75 Ω Low Speed: Approximately 110-125 Ω
UMV1152B**, MMV1153A**, AMV1162A**, AMV5164A**			
	Ventilation Motor	Remove all wires	
		Measure resistance across terminals	High Speed: Approximately 49-69 Ω Low Speed: Approximately 97-117 Ω
AMV4204A**, MMV4205A**			
	Ventilation Motor	Remove all wires	
		Measure resistance across terminals	Approximately 50-70 Ω
MMV5165A**	Ventilation Motor	Remove all wires	
		Measure resistance across terminals	Approximately 20-40 Ω
AMV5206A**, MMV5207A**, JMV8208A**			
	Sensor	Remove the 3-pin connector from the circuit board.	
AMV5164A**,		Measure resistance across pins 1 & 2	Approximately 6 k Ω (70°F, 20°C ± 35°F, 2°C)
MMV5165A**, AMV5206A**,		Measure resistance across pins 2 & 3	Approximately 3 k Ω (70°F, 20°C ±
MMV5207A**, JMV8208A**		Measure resistance across pins 1 & 3	35°F, 2°C) Approximately 3 k Ω (70°F, 20°C ± 35°F, 2°C)
	Thermistor	Remove connector from circuit board.	
All Models		Measure resistance across pins 1 & 3	Approximately 250-360 KΩ (70°F, 20°C ± 35°F, 2°C)
Refer to Parts Manual for proper power cord part number.	Power cord	Measure resistance of wires	Continuity on each wire. Verify polarity and grounding.

A WARNING

Illustration	Component	Test Procedure	R	Results		
	Touch Pad/Control	Removal of Touch	Pad	Trace	Measurement	
FTP Connector	Panel	Pad/Control Panel is	1	9&1	Continuity	
TOP	Model UMV1152B**	required to perform test.	2	9&2	Continuity	
→1		Check for continuity.	3	9&3	Continuity	
			4	9&4	Continuity	
		When touched: Less than	5	9&5	Continuity	
		400 Ω	6	9&6	Continuity	
	AUTO COOK & REHEAT	When not touched: More	7	10 & 1	Continuity	
9	Popcom Bokec Pizza	than 1 mega Ω	8	10 & 2	Continuity	
	Frozen Beverage Auto Entree Beverage	_	9	10 & 3	Continuity	
	Auto Defrost Defrost (Cook		0	10 & 4	Continuity	
	Defrost Defrost Cook		Popcorn	11 & 1	Continuity	
	1 2 3 4 5		Baked Potato	11 & 2	Continuity	
	6 7 8 9 0		Pizza Slice	11 & 3	Continuity	
			Frozen Entree	11 & 6	Continuity	
	Cook Power Add Time Level 30sec.		Beverage	11 & 4	Continuity	
			Auto Reheat	10 & 6	Continuity	
	Clear CSTART		Auto Defrost	8&6	Continuity	
	Gock Custom Kitchen Program Timer		Time Defrost	12 & 4	Continuity	
			Auto Cook	11 & 5	Continuity	
	Vent Hi/Lo/Off Hi/Lo/Off		Cook Time	12 & 5	Continuity	
			Power Level	12 & 6	Continuity	
			Add 30 Sec.	8 & 5	Continuity	
			Stop/Clear	8 & 1	Continuity	
			Start	8 & 2	Continuity	
			Clock	8&3	Continuity	
			Custom Program	12 & 3	Continuity	
			Kitchen Timer	8 & 4	Continuity	
			Vent Hi/Lo/Off	12 & 1	Continuity	
			Light Hi/Lo/Off	12 & 2	Continuity	

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

WARNING

Illustration	Component	Test Procedure	R	esults	
	Touch Pad/Control	Removal of Touch	Pad	Trace	Measurement
FTP Connector	Panel	Pad/Control Panel is	1	9&1	Continuity
TOP	Model MMV1153A**	required to perform test.	2	9&2	Continuity
		Check for continuity.	3	9&3	Continuity
		_	4	9&4	Continuity
		When touched: Less than	5	9&5	Continuity
	Auto Cook & Reheat	400 Ω	6	9&6	Continuity
	Popcorn Baked Poza Popcorn Baked Sice	When not touched: More	7	10 & 1	Continuity
	Frozen Entree Beverage Defrost	than 1 mega Ω	8	10 & 2	Continuity
	Auto Defrost Auto Defrost	_	9	10 & 3	Continuity
	Defrost Cook Reheat		0	10 & 4	Continuity
	1 2 3 4 5		Popcorn	11 & 1	Continuity
	6 7 8 9 0		Baked Potato	11 & 2	Continuity
	Cook Power add		Pizza Slice	11 & 3	Continuity
	and the text so sec		Frozen Entree	11 & 6	Continuity
	STOP CLEVR (* ENTER STURT		Beverage	11 & 4	Continuity
			Auto Reheat	10 & 6	Continuity
	Clock Custom Kitchen Timer		Auto Defrost	8&6	Continuity
	Vent Ught		Time Defrost	12 & 4	Continuity
	HULAVOIT		Auto Cook	11 & 5	Continuity
			Cook Time	12 & 5	Continuity
			Power Level	12 & 6	Continuity
			Add 30 Sec.	8&5	Continuity
			Stop/Clear	8&1	Continuity
			Start	8 & 2	Continuity
			Clock	8&3	Continuity
			Custom Program	12 & 3	Continuity
			Kitchen Timer	8&4	Continuity
			Vent Hi/Lo/Off	12 & 1	Continuity
			Light Hi/Lo/Off	12 & 2	Continuity

A WARNING

Illustration	Component	Test Procedure	R	esults	
	Touch Pad/Control	Removal of Touch	Pad	Trace	Measurement
FTP Connector	Panel	Pad/Control Panel is	1	9&1	Continuity
TOP	Model AMV1162A**	required to perform test.	2	9&2	Continuity
		Check for continuity.	3	9&3	Continuity
			4	9&4	Continuity
		When touched: Less than	5	9 & 5	Continuity
		400 Ω	6	9&6	Continuity
	Auto Cook & Reheat	When not touched: More	7	10 & 1	Continuity
° → − → °	Potato Slice	than 1 mega Ω	8	10 & 2	Continuity
	Entree Beverage Reheat	_	9	10 & 3	Continuity
	Auto Defrost Defrost Cook		0	10 & 4	Continuity
	1 2 3 4 5		Popcorn	11 & 1	Continuity
	67890		Baked Potato	11 & 2	Continuity
			Pizza Slice	11 & 3	Continuity
	Power Cook Add Level Time 30Sec.		Frozen Entree	11 & 6	Continuity
	Stop Clear BStart		Beverage	11 & 4	Continuity
			Auto Reheat	10 & 6	Continuity
	Kitchen Custom Clock Timer Program Clock		Auto Defrost	8&6	Continuity
	Vent Light H/Ls/Off H/Ls/Off		Time Defrost	12 & 4	Continuity
			Auto Cook	11 & 5	Continuity
			Cook Time	12 & 5	Continuity
			Power Level	12 & 6	Continuity
			Add 30 Sec.	8 & 5	Continuity
			Stop/Clear	8&1	Continuity
			Start	8 & 2	Continuity
			Clock	8&3	Continuity
			Custom Program	12 & 3	Continuity
			Kitchen Timer	8 & 4	Continuity
			Vent Hi/Lo/Off	12 & 1	Continuity
			Light Hi/Lo/Off	12 & 2	Continuity

WARNING

Illustration	Component	Test Procedure	F	Results	
	Touch Pad/Control	Removal of Touch	Pad	Trace	Measurement
FTP Connector	Panel	Pad/Control Panel is	1	8&1	Continuity
TOP	Model AMV4204A**	required to perform test.	2	8 & 2	Continuity
		Check for continuity.	3	8&3	Continuity
			4	8 & 4	Continuity
		When touched: Less than	5	8 & 5	Continuity
		400 Ω	6	8&6	Continuity
	Automatic Cooking	When not touched: More	7	8&7	Continuity
l ⊢ l → 9	Popcorn Baked Beverage	than 1 mega Ω	8	13 & 5	Continuity
	Potato Develage		9	13 & 6	Continuity
	Cook Reheat Poultry		0	13 & 7	Continuity
	Soften Melt		Popcorn	11 & 1	Continuity
			Baked Potato	9&6	Continuity
	Auto Time Rapid Defrost Defrost		Beverage	9&7	Continuity
			Cook	11 & 2	Continuity
	1 2 3 Clock		Reheat	11 & 3	Continuity
	4 5 6 Cook		Poultry	10 & 4	Continuity
	7 8 9 Control Setup		Soften	10 & 6	Continuity
	· · · · · · · · · · · · · · · · · · ·		Melt	10 & 7	Continuity
	Power O Add Hold Level O 30 Sec, Warm		Auto Defrost	11 & 4	Continuity
	(Stop) Estas		Time Defrost	11 & 6	Continuity
	Stop Clear ØStart		Rapid Defrost	11 & 7	Continuity
	Custom Kitchen Light		Clock	12 & 5	Continuity
	Custom Kitchen Light Program Timer Timer		Cook Time	9&2	Continuity
	Vent Turntable Light		Control Setup	12 & 1	Continuity
	HI/Lo/Off On/Off HI/Lo/Off		Power Level	13 & 1	Continuity
			Add 30 Sec.	11 & 5	Continuity
			Hold Warm	12 & 2	Continuity
			Stop/Clear	13 & 3	Continuity
			Enter/Start	13 & 4	Continuity
			Custom Program	9&3	Continuity
			Kitchen Timer	12 & 4	Continuity
			Light Timer	9&5	Continuity
			Vent Hi/Lo/Off	10 & 1	Continuity
			Turntable On/Off	12 & 3	Continuity
			Light Hi/Lo/Off	10 & 3	Continuity

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

WARNING

Illustration	Component	Test Procedure	R	esults	
	Touch Pad/Control	Removal of Touch	Pad	Trace	Measurement
FTP Connector	Panel	Pad/Control Panel is	1	8 & 1	Continuity
TOP	Model MMV4205A**	required to perform test.	2	8 & 2	Continuity
		Check for continuity.	3	8&3	Continuity
		-	4	8 & 4	Continuity
		When touched: Less than	5	8 & 5	Continuity
		400 Ω	6	8&6	Continuity
	Automatic Cooking	When not touched: More	7	8&7	Continuity
		than 1 mega Ω	8	13 & 5	Continuity
	Popcorn Baked Beverage	_	9	13 & 6	Continuity
	Cook Reheat Poultry		0	13 & 7	Continuity
			Popcorn	11 & 1	Continuity
	Soften Melt		Baked Potato	9&6	Continuity
	Auto Time Rapid Defrost Defrost Defrost		Beverage	9&7	Continuity
	Denost Denost Denost		Cook	11 & 2	Continuity
	1 2 3 Clock		Reheat	11 & 3	Continuity
	4 5 6 (Hold Warm)		Poultry	10 & 4	Continuity
	Add		Soften	10 & 6	Continuity
	7 8 9 30 Sec		Melt	10 & 7	Continuity
	Power Level 0 Cook Time Program		Auto Defrost	11 & 4	Continuity
			Time Defrost	11 & 6	Continuity
	(STOP) Contol (Setup) (StART)		Rapid Defrost	11 & 7	Continuity
			Clock	12 & 5	Continuity
	Kitchen Turntable Light limer On/Off limer		Cook Time	9&2	Continuity
			Control Setup	12 & 1	Continuity
	Vent Vent Light HV/Lo/Off Auto Time Set HV/Lo/Off		Power Level	13 & 1	Continuity
			Add 30 Sec.	11 & 5	Continuity
			Hold Warm	12 & 2	Continuity
			Stop/Clear	13 & 3	Continuity
			Enter/Start	13 & 4	Continuity
			Custom Program	9&3	Continuity
			Kitchen Timer	12 & 4	Continuity
			Light Timer	9&5	Continuity
			Vent Hi/Lo/Off	10 & 1	Continuity
			Vent Auto Time Set	10 & 5	Continuity
			Turntable On/Off	12 & 3	Continuity
			Light Hi/Lo/Off	10 & 3	Continuity

WARNING

Illustration	Component	Test Procedure	F	Results	
	Touch Pad/Control	Removal of Touch	Pad	Trace	Measurement
FTP Connector	Panel	Pad/Control Panel is	1	8 & 1	Continuity
TOP	Model AMV5164A**	required to perform test.	2	8 & 2	Continuity
		Check for continuity.	3	8&3	Continuity
			4	8 & 4	Continuity
		When touched: Less than	5	8 & 5	Continuity
		400 Ω	6	8&6	Continuity
	Sensor Controls Pepcorn Baked Pizza Potato Silce	When not touched: More	7	8&7	Continuity
	Cook Reheat Vegetable	than 1 mega Ω	8	13 & 5	Continuity
	Gustom Program More+ Less-	-	9	13 & 6	Continuity
	Auto Time (Repid Defrost Defrost		0	13 & 7	Continuity
	1 2 3 4 5		Popcorn	11 & 1	Continuity
	67890		Baked Potato	10 & 6	Continuity
	Power Gook Hold Leval Time Warm		Pizza Slice	10 & 7	Continuity
	Stop Clear ØStart		Cook	11 & 2	Continuity
	Control Add Turntable Setup 30Sec. Dr/OH		Reheat	11 & 3	Continuity
	Clack Light Kitchen		Vegetable	10 & 4	Continuity
	Vent Light		Custom Program	9&3	Continuity
			More	12 & 6	Continuity
			Less	12 & 7	Continuity
			Auto Defrost	11 & 4	Continuity
			Time Defrost	11 & 6	Continuity
			Rapid Defrost	11 & 7	Continuity
			Power Level	13 & 1	Continuity
			Cook Time	9&2	Continuity
			Hold/Warm	12 & 2	Continuity
			Stop/Clear	13 & 3	Continuity
			Enter/Start	13 & 4	Continuity
			Control Setup	12 & 1	Continuity
			Add 30 Seconds	11 & 5	Continuity
			Turntable On/Off	9&1	Continuity
			Clock	12 & 5	Continuity
			Light Hi/Lo/Off	10 & 3	Continuity
			Light Timer	9&5	Continuity
			Kitchen Timer	12 & 4	Continuity
			Vent Hi/Lo/Off	10 & 1	Continuity

A WARNING

Illustration	Component	Test Procedure		Results	
	Touch Pad/Control	Removal of Touch	Pad	Trace	Measurement
FTP Connector	Panel	Pad/Control Panel is	1	8 & 1	Continuity
TOP	Model MMV5165A**	required to perform test.	2	8 & 2	Continuity
		Check for continuity.	3	8&3	Continuity
			4	8 & 4	Continuity
		When touched: Less than	5	8 & 5	Continuity
		400 Ω	6	8&6	Continuity
	Sensor Controls	When not touched: More	7	8&7	Continuity
	Popcom Baked Pizza Pistato Stree	than 1 mega Ω	8	13 & 5	Continuity
	Cook Rchcal Vegetable		9	13 & 6	Continuity
	Aujo Defrost Time Defrost Rand Defrost More+ Control Casxm Add Ose tess-		0	13 & 7	Continuity
			Popcorn	11 & 1	Continuity
			Baked Potato	10 & 6	Continuity
	·······		Pizza Slice	10 & 7	Continuity
	(Leck Cook Privat) Held warm		Cook	11 & 2	Continuity
	STOP CLEAR & START		Reheat	11 & 3	Continuity
	UgHt Light Kitchen Timer		Vegetable	10 & 4	Continuity
	DryOff 3 Spood Time Set		Custom Program	9&3	Continuity
			More	12 & 6	Continuity
			Less	12 & 7	Continuity
			Auto Defrost	11 & 4	Continuity
			Time Defrost	11 & 6	Continuity
			Rapid Defrost	11 & 7	Continuity
			Power Level	13 & 1	Continuity
			Cook Time	9&2	Continuity
			Hold/Warm	12 & 2	Continuity
			Stop/Clear	13 & 3	Continuity
			Enter/Start	13 & 4	Continuity
			Control Setup	12 & 1	Continuity
			Add 30 Seconds	11 & 5	Continuity
			Clock	12 & 5	Continuity
			Light Hi/Lo/Off	10 & 3	Continuity
			Light Timer	9&5	Continuity
			Kitchen Timer	12 & 4	Continuity
			Vent On/Off	10 & 1	Continuity
			Vent 5-Speed	10 & 2	Continuity
			Vent Auto Time Set	10 & 5	Continuity

WARNING

Illustration	Component	Test Procedure		Results	
	Touch Pad/Control	Removal of Touch	Pad	Trace	Measurement
FTP Connector	Panel	Pad/Control Panel is	1	8 & 1	Continuity
TOP	Model AMV5206A**	required to perform test.	2	8&2	Continuity
		Check for continuity.	3	8&3	Continuity
			4	8 & 4	Continuity
		When touched: Less than	5	8&5	Continuity
		400 Ω	6	8&6	Continuity
	Sensor Controls	When not touched: More	7	8&7	Continuity
- → °	Popcorn Cook Reheat	than 1 mega Ω	8	13 & 5	Continuity
		-	9	13 & 6	Continuity
$12 \rightarrow 12$	Autometic Cooking Poultry Soften Melt		0	13 & 7	Continuity
	abiter weit		Popcorn	11 & 1	Continuity
	Custom Add Turntable Program 30 Sec. On/Off		Soften	10 & 6	Continuity
	Auto Time Rapid		Melt	10 & 7	Continuity
	Defrost Defrost		Cook	11 & 2	Continuity
	1 2 3 Clock		Reheat	11 & 3	Continuity
	4 5 6 Cook Time		Poultry	10 & 4	Continuity
			Custom Program	9&3	Continuity
	7 8 9 Power Level		More	12 & 6	Continuity
	More+ O Less- Hold Warm		Less	12 & 7	Continuity
			Auto Defrost	11 & 4	Continuity
	Clear Control Enter		Time Defrost	11 & 6	Continuity
	Light Kitchen Light		Rapid Defrost	11 & 7	Continuity
	Light Kitchen Light Hi/Lo/Off Timer Timer		Power Level	13 & 1	Continuity
	On/Off 5-Speed Auto		Cook Time	9&2	Continuity
	On/Off 5-Speed Time Set		Hold/Warm	12 & 2	Continuity
			Stop/Clear	13 & 3	Continuity
			Enter/Start	13 & 4	Continuity
			Control Setup	12 & 1	Continuity
			Add 30 Seconds	11 & 5	Continuity
			Clock	12 & 5	Continuity
			Light Hi/Lo/Off	10 & 3	Continuity
			Light Timer	9&5	Continuity
			Kitchen Timer	12 & 4	Continuity
			Vent On/Off	10 & 1	Continuity
			Vent 5-Speed	10 & 2	Continuity
			Vent Auto Time Set	10 & 5	Continuity
			Turntable On/Off	12 & 3	Continuity

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

WARNING

Illustration	Component	Test Procedure		Results	
	Touch Pad/Control	Removal of Touch	Pad	Trace	Measurement
FTP Connector	Panel	Pad/Control Panel is	1	8 & 1	Continuity
TOP	Model MMV5207A**	required to perform test.	2	8 & 2	Continuity
		Check for continuity.	3	8&3	Continuity
			4	8 & 4	Continuity
		When touched: Less than	5	8&5	Continuity
		400 Ω	6	8&6	Continuity
		When not touched: More	7	8&7	Continuity
9	Sensor Controls Popcorn Cook Reheat	than 1 mega Ω	8	13 & 5	Continuity
		-	9	13 & 6	Continuity
$12 \rightarrow 12$	Automatic Cooking (Poultry) (Soften) (Melt)		0	13 & 7	Continuity
			Popcorn	11 & 1	Continuity
	Auto Time Rapid Defrost Defrost Defrost		Soften	10 & 6	Continuity
	1 2 3 (Clock)		Melt	10 & 7	Continuity
			Cook	11 & 2	Continuity
	4 5 6 (Hold Warm)		Reheat	11 & 3	Continuity
	7 8 9 (Add 30 Sec.)		Poultry	10 & 4	Continuity
	More+ () Less- (Custom)		Custom Program	9&3	Continuity
	·······		More	12 & 6	Continuity
	Power Level Control Cook Setup Time		Less	12 & 7	Continuity
			Auto Defrost	11 & 4	Continuity
	STOP CLEAR ® ENTER START		Time Defrost	11 & 6	Continuity
	Kitchen Light Light		Rapid Defrost	11 & 7	Continuity
	Timer Timer HI/Lo/Off		Power Level	13 & 1	Continuity
	On/Off 5-Speed Time Set		Cook Time	9&2	Continuity
	On/Off 5-Speed Time Set		Hold/Warm	12 & 2	Continuity
			Stop/Clear	13 & 3	Continuity
			Enter/Start	13 & 4	Continuity
			Control Setup	12 & 1	Continuity
			Add 30 Seconds	11 & 5	Continuity
			Clock	12 & 5	Continuity
			Light Hi/Lo/Off	10 & 3	Continuity
			Light Timer	9&5	Continuity
			Kitchen Timer	12 & 4	Continuity
			Vent On/Off	10 & 1	Continuity
			Vent 5-Speed	10 & 2	Continuity
			Vent Auto Time Set	10 & 5	Continuity

WARNING

Illustration	Component	Test Procedure		Results	
	Touch Pad/Control	Removal of Touch	Pad	Trace	Measurement
FTP Connector	Panel	Pad/Control Panel is	1	8&1	Continuity
TOP	Model JMV8208A**	required to perform test.	2	8 & 2	Continuity
		Check for continuity.	3	8&3	Continuity
			4	8 & 4	Continuity
		When touched: Less than	5	8&5	Continuity
		400 Ω	6	8&6	Continuity
		When not touched: More	7	8&7	Continuity
° → °	Sensor Controls	than 1 mega Ω	8	13 & 5	Continuity
	Popcorn Cook Reheat		9	13 & 6	Continuity
$12 \rightarrow 12$	Automatic Conking		0	13 & 7	Continuity
	Poultry Soften Melt		Popcorn	11 & 1	Continuity
	Custom Add		Soften	10 & 6	Continuity
	Custom Add Program 30Sec.		Melt	10 & 7	Continuity
	Auto Time Rapid Defrost Defrost Defrost		Cook	11 & 2	Continuity
	e		Reheat	11 & 3	Continuity
	1 2 3 Clock		Poultry	10 & 4	Continuity
	4 5 6 Cook		Custom Program	9&3	Continuity
	7 8 9 Power Level		More	12 & 6	Continuity
			Less	12 & 7	Continuity
	More+ 0 Less- Hold Warm		Auto Defrost	11 & 4	Continuity
	STOP Control <mark>Enter</mark> CLEAR Setup Start		Time Defrost	11 & 6	Continuity
	CLEAR Setup Start		Rapid Defrost	11 & 7	Continuity
	Kitchen Light Light Timer Timer Hi/Lo/Off		Power Level	13 & 1	Continuity
	Vent Vent Vent Auto OrvOff 5 Speed Time Set		Cook Time	9&2	Continuity
	Or/Off 5 Speed Time Set		Hold/Warm	12 & 2	Continuity
			Stop/Clear	13 & 3	Continuity
			Enter/Start	13 & 4	Continuity
			Control Setup	12 & 1	Continuity
			Add 30 Seconds	11 & 5	Continuity
			Turntable On/Off	9&1	Continuity
			Clock	12 & 5	Continuity
			Light Hi/Lo/Off	10 & 3	Continuity
			Light Timer	9&5	Continuity
			Kitchen Timer	12 & 4	Continuity
			Vent On/Off	10 & 1	Continuity
			Vent 5-Speed	10 & 2	Continuity
			Vent Auto Time Set	10 & 5	Continuity

WARNING

High voltage is present at the high voltage terminal of the high voltage transformer during any cooking cycle.

It is neither necessary or advisable to attempt measurement of the high voltage.

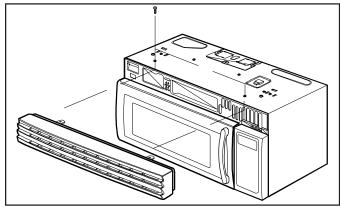
Before touching any oven components or wiring, always unplug the oven from its power source and discharge capacitor.

Grille

The top full-width grille is removable for service to some components, such as: humidity sensor, oven light, door removal, flame sensor, vent motor capacitor, fuse, control panel, and stirrer motor (some models).

Grille Removal

- 1. Disconnect power to oven.
- 2. Remove screws located in front on top of microwave securing grille.



- 3. Pull outward on the top portion of the grille releasing the tabs.
- 4. Reassemble in reverse order.

Door Assembly

CAUTION

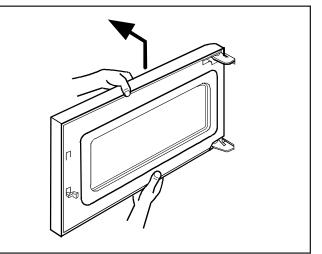
A microwave leakage test must be performed anytime a door assembly is removed, replaced, disassembled or adjusted for any reason.

Door Removal

- 1. Disconnect power to oven and remove grille, (see "Grille" procedure).
- 2. Open the oven door, slowly raise the door evenly, disengaging the pins at the top and bottom.
- **NOTE:** When aligning the door for assembly, the door must be opened as much as possible.

To avoid the risk of electrical shock, personal injury or death; disconnect power to oven and discharge capacitors before following any disassembly procedure.

- To place door back on unit, place bottom pin into hole first and then align the top pin. Once pins are aligned push door downward to lock into place.
- 4. Replace front grille to complete assembly.



Door Disassembly

- 1. Disconnect power to oven and remove oven door, (see "Door Removal" procedure).
- 2. Pry away choke cover, by placing a tool in the upper right corner of the door and gently prying outward on the choke cover. Continue to work around the door casing until choke cover is completely loose.

CAUTION

To avoid property damage, care must be taken when prying choke cover from oven door.

- 3. Slide latch assembly upward and to the left to release plastic tabs from door frame. Once latch assembly is loose the spring may be disconnected from the door frame.
- 4. Remove screws securing door frame assembly to door panel.
- 5. Remove door frame assembly by releasing tabs around entire door panel.
- 6. Remove door handle by removing screws securing handle to door panel.
- **NOTE:** The door handle can only be re-installed by guiding the top and bottom insertion points into the correct receiving slots. It is impossible to re-install the door handle "upside-down."
- Remove door glass by releasing tab securing door glass baffle. Remove baffle, then slide door glass to the right slightly, then push the door glass upward to release the glass from the track.
- 8. Reassemble in reverse order.

🚹 WARNING

Baffle Glass Glass Door Frame Assembly Door Panel

CAUTION

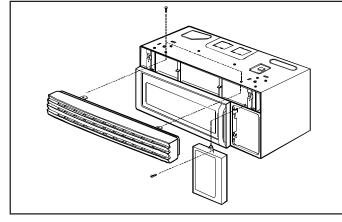
A microwave leakage test must be performed anytime a door assembly is removed, replaced, disassembled, or adjusted for any reason.

Control Panel

The control panel is made up of several components, such as p.c. board and touch panel.

Control Panel Removal

- 1. Disconnect oven power and remove grille, (see "Grille" section).
- 2. Remove screw located at the top of touch panel. Lift control panel up and out to release bottom tab connections.
- 3. Place control panel on a flat surface.
- 4. Reassemble in reverse order.

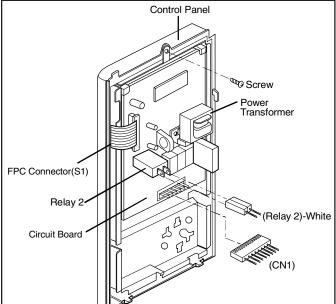


To avoid the risk of electrical shock, personal injury or death; disconnect power to oven and discharge capacitors before following any disassembly procedure.

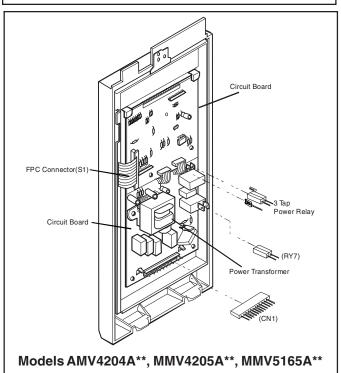
P.C. Board

The p.c. board is located at the top on back of the control panel. Some boards have up to 7 connection plugs which control the following:

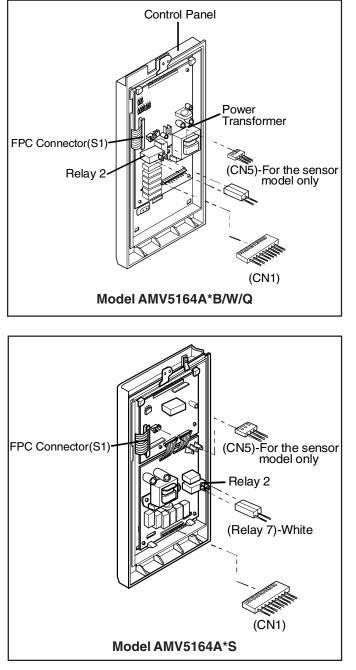
-	-
CN1	Main power connector
CN3 or 5	Humidity Sensor
FPC (S1)	Ribbon connector for key panel
Relay 2	Relay connector
Relay 7	Relay connector
3 Тар	Power Relay Connector



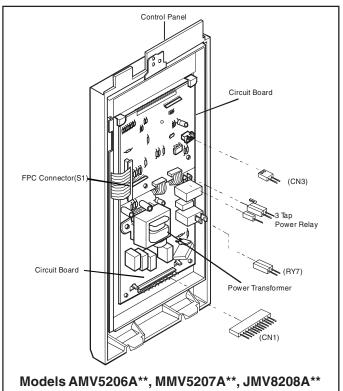
Models UMV1152B**, MMV1153A**, AMV1162A**



WARNING



To avoid the risk of electrical shock, personal injury or death; disconnect power to oven and discharge capacitors before following any disassembly procedure.



P.C. Board Removal

- 1. Disconnect oven power and remove grille, (see "Grille" procedure).
- 2. Remove control panel, (see "Control Panel" procedure).
- 3. Discharge high voltage capacitor, (see "High Voltage Capacitor" procedure).
- 4. Disconnect ribbon connector by sliding top part of connector upward. Once in released position remove ribbon from connector by siding ribbon side-to-side.
- **NOTE:** Caution should be used when removing cable from connector. Ribbon cable has two holes which connector locks ribbon in place.
- 5. Disconnect and mark the wire connectors from p.c. board.
- 6. Remove screws securing p.c. board to control panel assembly.
- 7. Reassemble in reverse order.

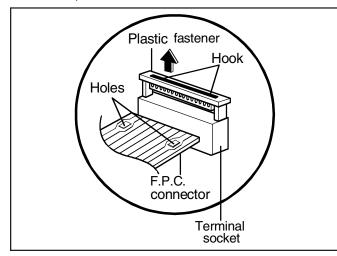
NOTE: Do not flex p.c. board.

🔒 WARNING

Control Key Panel

The key panel has one ribbon connection on the p.c. board.

The key panel pads can be checked through a continuity test. Operations of key pad can be checked by measuring connections at end of ribbon, (using high ohms scale).



Control Key Panel Removal

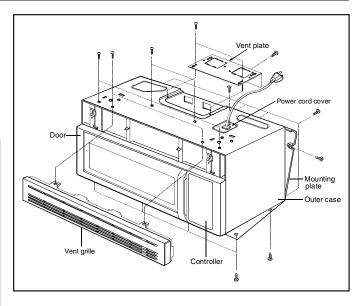
- 1. Disconnect power to oven.
- 2. Remove control panel, (see "Control Panel" section).
- 3. Discharge high voltage capacitor, (see "High Voltage capacitor section).
- 4. Disconnect ribbon connector by sliding top part of connector upward. Once in released position remove ribbon from connector by siding ribbon side-to-side.
- **NOTE:** Caution should be used when removing cable from connector. Ribbon cable has two holes which connector locks ribbon in place.
- 5. Peel failed key pad off and replace with new key pad.
- 6. Reassemble in reverse order.

Outer Case

NOTE: This procedure requires removal of unit.

- 1. Disconnect power to oven and remove grille, (see "Grille" procedure).
- 2. Remove oven door (see "Door Removal" procedure).
- 3. Remove screws securing air duct to outer case.
- 4. Remove screws securing outer case to the chassis.
- 5. Remove screws securing vent plate to outer case.
- 6. Remove screw securing power cord cover to outer case and remove power cord cover (if equipped).
- 7. Slide outer case towards the rear of the unit, guide power cord though outer case power cord hole.
- 8. Place outer case to the side, so no damage will occur to the case.
- 9. Reassemble in reverse order.

To avoid the risk of electrical shock, personal injury or death; disconnect power to oven and discharge capacitors before following any disassembly procedure.

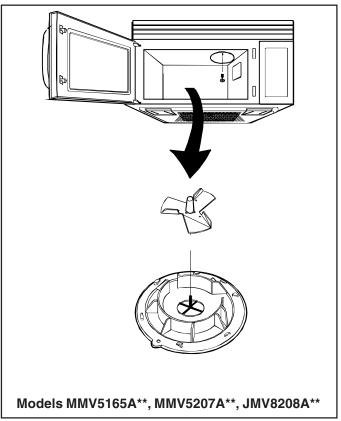


Stirrer Assembly

Motor driven antenna assembly is located at the top of the cavity, using a top feed wave guide.

Stirrer Blade Removal

- 1. Disconnect power to oven and open the oven door.
- 2. Carefully pry downward on the plastic rivets securing the stirrer cover.
- 3. Rotate slightly and pull down on stirrer fan cover .
- 4. Reassemble in reverse order.



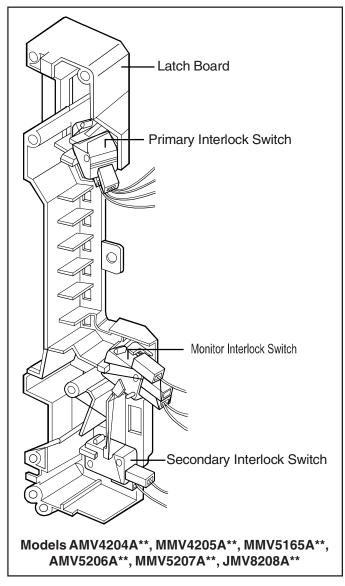
WARNING

Interlock Door Latch Switches

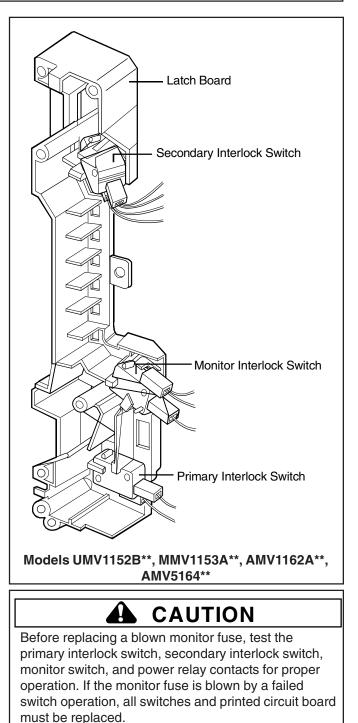
Primary switch is operated by the top latch pawl on models AMV4204A**, MMV4205A**, MMV5165A**, AMV5206A**, MMV5207A**, JMV8208A** and by the bottom latch pawl on models UMV1152B**, MMV1153A**, AMV1162A**, AMV5164**.

Interlock Switch Removal

- 1. Disconnect power to oven and remove control panel, (see "Control Panel" procedure).
- 2. Discharge high voltage capacitor, (see "High Voltage Capacitor" procedure).
- 3. Test interlock switches before removing, (see Testing Procedures).
- 4. Disconnect and label wire connections.
- 5. Remove interlock switch.
- 6. Reassemble in reverse order.



To avoid the risk of electrical shock, personal injury or death; disconnect power to oven and discharge capacitors before following any disassembly procedure.



🚹 WARNING

Adjusting Interlocks

The interlock monitor and primary switches act as a final safety switch, protecting the operator from microwave energy. After adjusting the interlock switches, verify connections are correctly connected.

For door fit and switch operation, switch housing is adjustable.

- 1. Disconnect power to oven and remove control panel, (see "Control Panel" procedure).
- 2. Discharge high voltage capacitor, (see "High Voltage Capacitor" procedure).
- 3. Loosen switch housing mounting screws on vertical flange.
- Close oven door, move latch board upward toward the top of the oven and/or away from the door latch until gaps are less than ¹/₆₄–inch (0.5 mm).
- 5. Hold latch board securely for proper switch operation and door fit, retighten screws.
- 6. Open the oven door slowly, watching the switches. Verify switches release in the following order.
 - Primary interlock switch
 - Secondary interlock switch
 - Monitor interlock switch
- **NOTE:** Adjust the latch board until all switches operate in proper sequence.
- 7. Close the oven door slowly, watching the switches. Verify switches active in the following order.
 - Monitor interlock switch
 - Secondary interlock switch
 - Primary interlock switch
- 8. When proper sequence of switch has been achieved, tighten the latch board securely.

A microwave leakage test must be preformed anytime a door assembly is removed, replaced, disassembled or adjustment of latch board is made.

High Voltage Capacitor

High voltage capacitor should always be discharged by shorting a terminal to a chassis ground. The capacitor has a internal "shunt" resistor, but the mechanical discharge should always be performed to avoid personal injury. To avoid the risk of electrical shock, personal injury or death; disconnect power to oven and discharge capacitors before following any disassembly procedure.

High Voltage Capacitor Removal

- 1. Disconnect power to oven and remove control panel, (see "Control Panel" procedure).
- 2. Discharge high voltage capacitor by connecting a jumper wire to the terminal of high voltage capacitor with the diode connected to it. Connect the other end of the jumper wire to a well insulated screwdriver and touch a nearby chassis ground screw.
- 3. Remove screws that secure capacitor and diode.
- 4. Slide capacitor mounting bracket out of the slots and pull outward on capacitor, diode and bracket.
- 5. Reassemble in reverse order.

Diode

The diode is located next to the high voltage capacitor.

- 1. Disconnect power to oven and remove control panel, (see "Control Panel" procedure).
- 2. Discharge high voltage capacitor, (see "High Voltage Capacitor" procedure).
- Disconnect diode wire terminal from high voltage capacitor and remove screw securing diode to ground.
- 4. Reassemble in reverse order.

Transformer

High voltage transformer can be serviced through the front of the unit.

Power Transformer Removal

- 1. Disconnect power to oven and remove control panel, (see "Control Panel" procedure).
- 2. Discharge high voltage capacitor, (see "High Voltage Capacitor" procedure).
- 3. Disconnect and label wire leads from transformer.
- 4. Remove screws securing transformer and remove out through the front.
- 5. Reassemble in reverse order.

Fuse

The fuse is located behind the grille in line with the power cord on the right side of the unit.

Fuse Removal

- 1. Disconnect power and remove grille, (see "Grille procedure).
- 2. Remove and replace fuse.
- 3. Reassemble in reverse order.

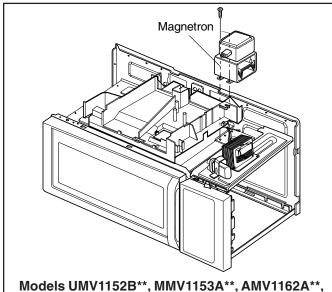
Disassembly Procedures

WARNING

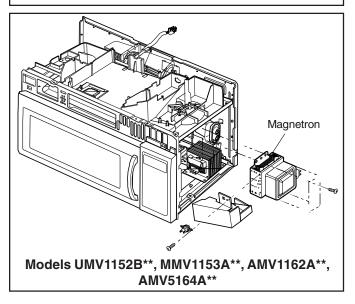
Magnetron

Magnetron is mounted on the side of the cavity to provide a top feed single waveguide.

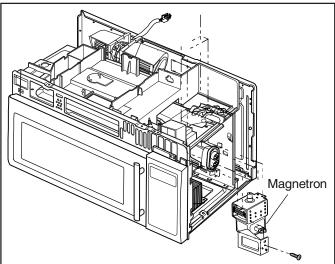
- 1. Disconnect power to oven and remove grille, (see "Grille" procedure).
- 2. Remove control panel, (see "Control Panel" procedure).
- 3. Remove outer case, (see "Outer Case" procedure).
- Discharge high voltage capacitor, (see "High Voltage Capacitor" procedure).
- 5. Remove screws securing magnetron to the wave guide.
- 6. Carefully remove the magnetron.
- 7. Reassemble in reverse order.



AMV5164A**



To avoid the risk of electrical shock, personal injury or death; disconnect power to oven and discharge capacitors before following any disassembly procedure.



Models MMV5165A**, MMV5207A**, JMV8208A**

NOTE: When replacing the magnetron, make sure the gasket is in the correct position and in good condition.



During replacement of magnetron, be certain the R.F. anode gasket is in place around anode stud.

WARNING

A microwave leakage test must be performed anytime a magnetron assembly is removed, replaced, disassembled or adjusted for any reason.

Magnetron Fan Assembly

Magnetron fan motor provides cool air circulation from an external air source, which provides direct cool air through air vanes surrounding the magnetron. This assembly is located above the magnetron.

Magnetron Fan Removal

- 1. Follow steps 1 through 4 of "Magnetron" procedure.
- 2. Remove fan blade from fan motor.
- 3. Remove screws securing fan motor to air duct.
- 4. Disconnect wires from fan motor, and lift fan motor assembly out.
- 5. Reassemble in reverse order.

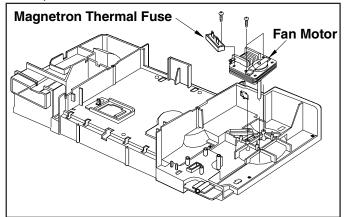
Disassembly Procedures

A WARNING

Magnetron Thermal Fuse

NOTE: Thermal fuse is not resettable.

- 1. Disconnect power to oven and remove control panel, (see "Control Panel" procedure).
- 2. Discharge high voltage capacitor, (see "High Voltage Capacitor" procedure).
- 3. Remove outer case, (see "Outer Case" procedure).
- 4. Disconnect and label wire terminals.
- 5. Remove screw securing thermal fuse to cooling fan.
- 6. Replace and reassemble in reverse order.

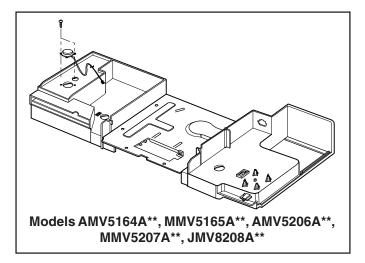


Humidity Sensor

The sensor is a plug-in device located in the air exhaust duct.

Humidity Sensor Removal

- 1. Disconnect power to oven and remove control panel, (see "Control Panel" procedure).
- 2. Discharge high voltage capacitor, (see "High Voltage Capacitor" procedure).
- 3. Remove outer case, (see "Outer Case" procedure).
- 4. Remove screws securing sensor to air duct.
- 5. Disconnect wire terminal plug and replace with new sensor.
- 6. Reassemble in reverse order.



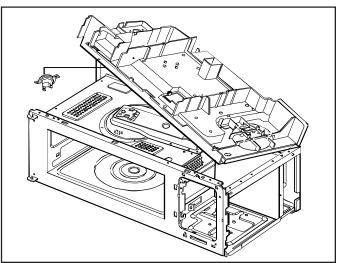
To avoid the risk of electrical shock, personal injury or death; disconnect power to oven and discharge capacitors before following any disassembly procedure.

Oven Thermostat

The oven thermostat is on the air duct assembly.

Thermostat is a resettable thermostat.

- 1. Disconnect power to oven and remove control panel, (see "Control Panel" procedure).
- 2. Discharge high voltage capacitor, (see "High Voltage Capacitor" procedure).
- 3. Remove outer case, (see "Outer Case" procedure).
- 4. Disconnect wire terminals from oven thermostat.
- **NOTE:** Lift upward on rear corner of air duct to release oven thermostat.

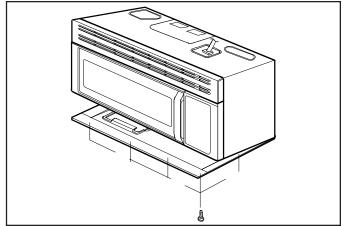


Disassembly Procedures

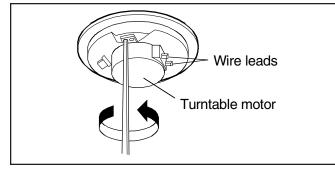
WARNING

Turntable Motor

- 1. Disconnect power to oven.
- 2. Remove screws securing bottom plate cover.



- Open the oven door, remove turntable, and gently pry upward on turntable shaft.
- 4. Disconnect wire leads from turntable motor.



- 5. Remove screws securing turntable to the oven cavity.
- 6. Replace and reassemble in reverse order.

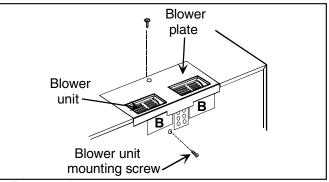
To avoid the risk of electrical shock, personal injury or death; disconnect power to oven and discharge capacitors before following any disassembly procedure.

Vent Blower

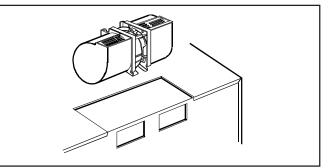
Vent blower is a five speed capacitor run blower assembly located on top of the oven. The blower is operated by voltage relays located on the p.c. board.

Vent Exhaust Blower Removal

- 1. Disconnect power to unit and remove unit from its installation.
- 2. Remove screws securing damper and motor assembly to top and back of unit.



- 3. Remove damper.
- 4. Lift blower assembly out and disconnect wire connection wire terminal.



5. Reassemble in reverse order.

NOTE: Place blower assembly wires in slotted area to avoid pinching of wires.

Light Socket

- 1. Disconnect power to oven.
- 2. Remove Grille (see "Grille" procedure).
- 3. Remove screws securing bulb holder.
- 4. Remove light bulb and socket.
- 5. Disconnect wire terminal plug.
- 6. Replace and reassemble in reverse order.

Appendix A

IMPORTANT SAFETY INFORMATION

A WARNING

To avoid risk of personal injury, install microwave oven only as instructed.

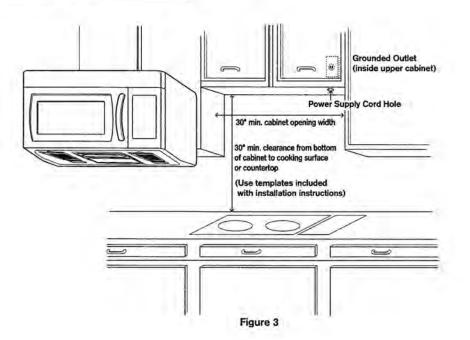
A WARNING

To avoid risk of personal injury, place a piece of the carton or other heavy material, such as a blanket, over the countertop or cooktop to protect it. DO NOT use a plastic cover.

NOTE: 33" from the countertop to the top of microwave cut out is recommended for optimal performance of range and microwave.

Make Sure You Have Enough Space And Support

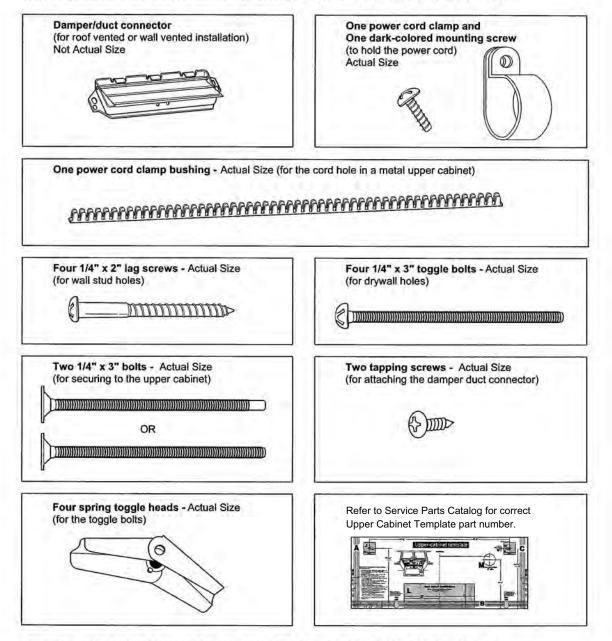
- Mount the oven against a flat, vertical wall, so it is supported by the wall. The wall should be constructed of minimum 2" x 4" wood studding and 3/8" thick drywall or plaster/lath.
- ATTACH AT LEAST ONE of the two lag screws supporting the oven to a vertical, 2" x 4" wall stud.
- DO NOT mount the microwave oven to an island or peninsula cabinet.
- BE SURE the upper cabinet and rear wall structures are able to support 150 lbs., plus the weight of any items you place inside the oven or upper cabinet.
- Locate the oven away from strong draft areas, such as windows, doors, and strong heating vents.
- BE SURE you have enough space. See Figure 3 below for minimum vertical and horizontal clearance.
- This microwave oven can be installed over gas or electric cooking products no more than 36 inches wide.



Parts, Tools, Materials

THE FOLLOWING PARTS ARE SUPPLIED WITH THE OVEN:

NOTE: Depending on your ventilation requirements, you may not use all of these parts.

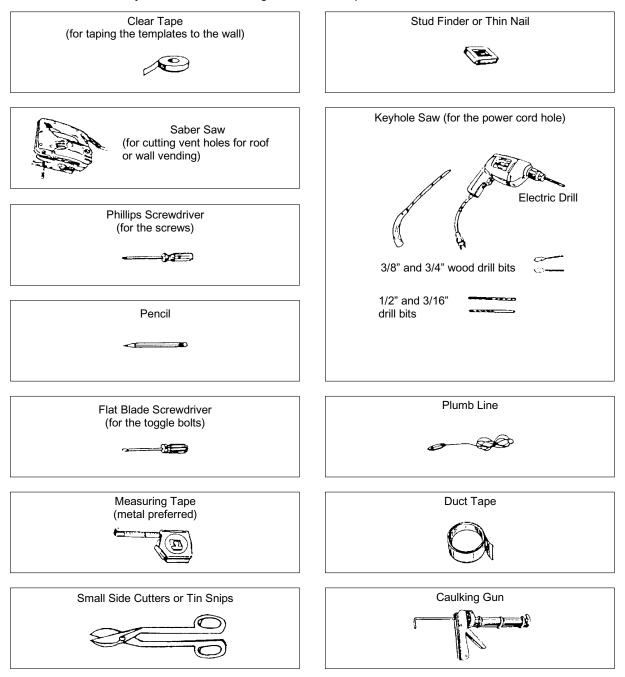


NOTE:You need to install at least one lag screw into a 2" x 4" stud and four anchor bolts into the wall, and the mounting area must meet the 150 lbs. weight requirement.

Parts, Tools, Materials

You will need the following tools and materials for the installation:

Carton or other heavy material for covering the counter top.



- If you have brick or masonry walls, you will need special hardware and tools.
- The ductwork you need for the installation is not included. All wall and roof caps must have a back-draft damper.

STEP 1: Prepare The Electrical Connections

🛦 W A R N I N G 🛕

AVOID ELECTRICAL SHOCK! THIS APPLIANCE MUST BE GROUNDED!

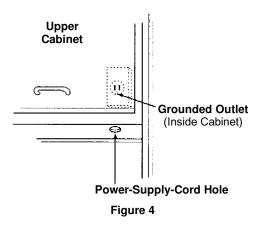
1. Locate the grounded electric outlet for this oven in the cabinet above the oven, as shown in Figure 4.

NOTE: The outlet should be on a circuit dedicated to the microwave oven (120V, 60 Hz., AC only) with a 15 or 20A fused electrical supply.

IMPORTANT: If you do not have the proper wall outlet, you MUST have one installed by a qualified electrician.

 You will cut the power-supply-cord hole (shown in Figure 4) later when you prepare the wall and upper cabinet in Step 4.

NOTE: Do not use an extension cord. Keep the power cord dry and do not pinch or crush it.



🛦 W A R N I N G 🛦

Improper grounding could result in electric shock or other personal injury.

- DO NOT, UNDER ANY CIRCUMSTANCES, REMOVE THE POWER SUPPLY CORD GROUNDING PRONG!
- This appliance MUST be grounded!

STEP 2: Prepare The Venting System

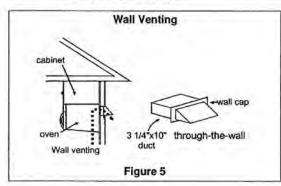
NOTE: The ductwork you need for outside ventilation is not included with your oven. The standard ductwork fittings and length are shown in Figure 9, page 10.

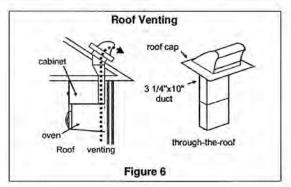
AWARNING-FIRE HAZARDA

THIS OVEN MUST BE PROPERLY VENTED!

You may vent your oven in one of three ways. However, do NOT vent into a wall cavity, an attic, or an unused area.

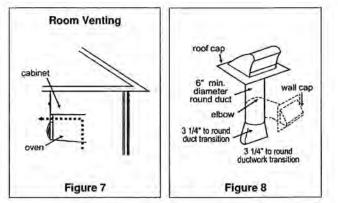
- Roof-venting If your oven is located on an outside wall near the roof, as in Figures 6 (3 1/4" x 10" duct) and Figure 8 (6" round duct.)
- Wall-venting If your oven is located on an outside wall of your house, as in Figure 5 (3 1/4" x 10" duct) and Figure 8 (6" round duct.)
- · Room-venting If your oven is located on an inside wall of your house, as in Figure 7.
- NOTE: If you choose the rear exhaust method (roof or wall venting), be sure there is enough clearance within the wall for the exhaust duct.





REMEMBER AS YOU INSTALL THE VENTING:

- Keep the length of the ductwork and the number of elbows to a minimum to ventilate your oven efficiently. See examples on page 10.
- · Keep the size of the ductwork the same.
- · Do not install two elbows together.
- · Use duct tape to seal all joints in the duct system.
- Use caulking to seal the exterior wall or roof opening around the cap.



STEP 2: Prepare The Venting System

Standard Fittings

NOTE: If the existing duct is round, you must use a rectangular-to-round adapter, with a rectangular 3" extension duct installed between the damper assembly and the adapter to prevent the exhaust damper's sticking.

Duct Length

The total length of the duct system, including straight duct, elbows, transitions, and wall or roof caps **must not** exceed the equivalent of 140 feet.

For best performance, do not use more than three 90 degree elbows, and keep length as short as possible.

Below are the standard fittings and their equivalent length in feet.

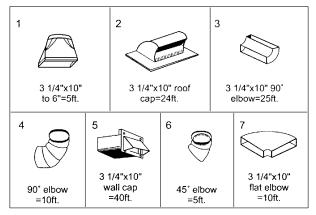


Figure 9

To calculate the equivalent length of each duct piece used, see the examples below.

Examples	
For 3 1/4"x10" SYSTEMS	For 6" ROUND SYSTEMS
3 1/4"x10" 90" elbow 2ft. + 2ft. +	90° elbows 6ft. wall cap
	1-transition = 5 ft.
1-3 1/4" x 10" 90° elbow = 25 ft.	$2-90^{\circ}$ elbows = 20 ft.
1-Wall Cap = 40 ft.	1-Wall Cap = 40 ft.
8 feet straight duct = 8 ft.	8 feet straight = 8 ft.
TOTAL LENGTH = 73 ft.	TOTAL LENGTH = 73 ft.

STEP 3: Prepare The Venting Blower

🛦 w a r n i n g 🛕

To avoid risk of property damage, unplug the microwave oven or disconnect power at source by removing fuse or throwing circuit breaker.

To avoid risk of personal injury, wear protective gloves when handling mounting plate.

DO NOT PULL OR STRETCH THE BLOWER WIRING! Pulling and stretching the blower wiring could result in electrical shock.

Your microwave oven is shipped with the blower assembled for room (recirculating) venting. If you want wall - venting or roof venting installation, you must change the blower, as detailed below.

Before You Start

- 1. Remove any shipping materials and parts from inside the microwave oven.
- 2. Cover the counter top or cooktop with a thick, protective covering to protect it from damage and dirt. See Figure 10.
- **NOTE:** If you have a free-standing range, disconnect it, move it onto a piece of cardboard or hardboard and pull it away from the wall, so that you can get closer to the upper cabinet and back wall for easier measuring and drilling.

Remove The Mounting Plate:

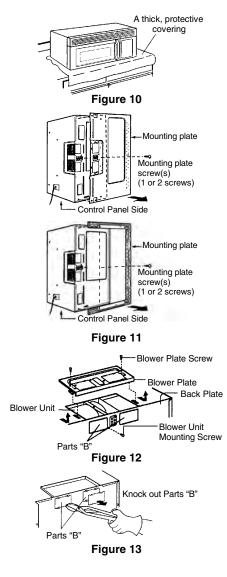
- 1. Remove mounting plate screw(s) (1 or 2 screws) from the mounting plate as shown and discard. See Figure 11.
- 2. This plate will be used as the rear mounting plate. (It will be used to locate and mark the mounting holes on the rear wall.)
- 3. Locate exhaust adaptor, grease filters and hardware packet.
- 4. At this point, remove any adhesive tape (if there is any), on the exhaust adaptor, the grease filters and the power supply cord.

Room-Vented (recirculating) Installation:

This oven is shipped assembled for room-vented.

Wall-Vented Installation:

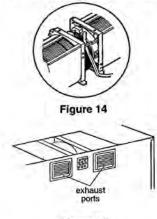
- 1. Remove one blower unit mounting screw and one or two blower plate screw(s). Remove the blower plate from cabinet. See Figure 12.
- 2. Carefully lift the blower unit out of the microwave oven.
- 3. Use side cutters or thin snips to cut and remove parts "B" from Back plate. Discard parts "B". Be careful not to distort the plate. See Figure 13.



STEP 3: Prepare The Venting Blower

4. Reassemble the blower wire. See Figure 14.

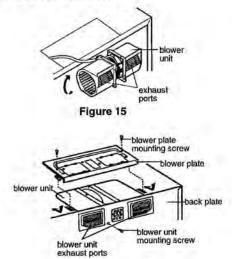
- Rotate the unit so that the exhaust ports face the rear of the cabinet. See Figure 16. When you insert blower unit, blower wire must be like figure 15.
- 6. Place blower unit back into cabinet. Check that the exhaust ports face towards the rear of the cabinet. See Figure 16.
- Reattach the blower plate to cabinet so the exhaust ports and blower plate opening are aligned. Attach with one blower unit mounting screw and then one or two blower plate mounting screw(s). See Figure 17.





Roof-Vented (Recirculating) Installation:

- Remove one blower unit mounting screw and one or two blower plate screw(s). Remove the blower plate from cabinet. See Figure 18.
- 2. Carefully lift the blower unit out of the microwave oven.
- Rotate blower unit 90° so the exhaust ports face the top of the cabinet. See Figure 19.
- 4. Place blower unit back into microwave oven.
- Use side cutters or thin snips to cut and remove knockouts "A" from Back plate. Discard knockouts. Be careful not to distort the plate. See Figure 20.
- Reattach blower plate to microwave oven. Attach with the one blower unit mounting screw and then the one or two blower plate mounting screw(s). See Figure 21.







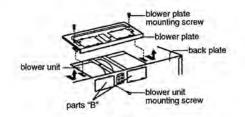
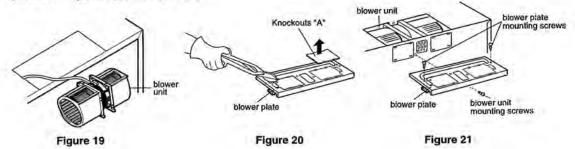


Figure 18



STEP 4: Prepare The Wall & Upper Cabinet

🛕 W A R N I N G 🛕

To avoid personal injury or property damage, do not attempt to install this microwave oven if you cannot find a wall stud.

Measure And Track/Tape Up The Templates

- 1. Using a plumb line and (metal) measuring tape, find and mark the vertical center line on the back wall, as in Figure 22.
- Find and mark one or two points where the studs are on the wall. (Studs are normally 16 inches apart). Then measure and mark the stud locations. If you cannot find any wall stud, consult a local building contractor.

CAUTION

DO NOT ATTEMPT TO INSTALL THE MICRO-WAVE OVEN IF YOU CANNOT FIND A WALL STUD.

- 3. Line up the plumb line on the wall with the center line on the mounting plate.
- **NOTE:** Be sure the minimum width is 30 inches and the distance from the top of the wall template to the range or counter top is at least 30 inches. See Figure 22.
- 4. Center mounting plate in operating by lining up the plumb line on wall with centerline on mounting plate. Make sure the minimum width is 30 inches and that the top of the mounting plate is located a minimum of 30 inches above the cooking surface. See Figure 23.
- **NOTE:** If the cabinets are not plumb, adjust the mounting plate to the cabinets. If the front edge of the cabinet is lower than the back edge, adjust the mounting plate to be level with the cabinet front.
- 5. Measure the bottom of the upper cabinet frame. Trim the edges A, B and C on the upper cabinet template so that the template will fit on the bottom of the upper cabinet. If upper cabinet has a recessed frame, trim the template so it fits inside the recessed area. Align the centerline of the upper cabinet template with the centerline of the mounting plate, then securely tape or tack the upper cabinet template in place. See Figure 23.

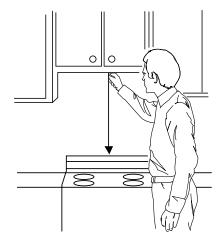
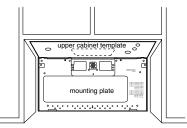


Figure 22



(1 piece mounting plate)

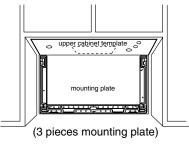


Figure 23

STEP 4: Prepare The Wall & Upper Cabinet

🛦 W A R N I N G 🛕

To avoid risk of personal injury, electrical shock or death:

- Note where electrical outlets and electrical wires are before you drill into the wall.
- Locate and disconnect power to any electrical circuits that could be affected by installing this oven.

🛦 w a r n i n g 🛕

To avoid risk of personal injury, electrical shock or death, cover the edge of the power supply cord hole with the power supply cord bushing.

Drill The Holes In The Wall And Upper Cabinet.

- 1. Find the points on the mounting plate labeled A, B, C, and D. Drill a 3/16" diameter hole at any points that are over a wall stud. Drill a 3/4" diameter hole at any points over drywall.
- 2. Drill a 3/8" hole at points J, K, and N on the upper cabinet template.
- **NOTE:** If the bottom of the upper cabinet is recessed 3/4" or more, you will need 2"x2" filler blocks (not included) to provide additional support for the bolts. See Figure 24.
 - Mark the center of each filler block and drill a 3/8" diameter hole at the marks.
 - Align filler blocks over the two openings in the top of the microwave oven cabinet and attach to cabinet with masking tape. See Figure 25.
- 3. Cut or drill a 2" diameter hole at the area marked M. Power supply cord hole on the upper cabinet template. If the upper cabinet is metal, you will need to cover the edge of the hole with the power supply cord bushing (supplied) to prevent damage to the cord from the rough metal edge.
- 4. Cut out the venting areas (with the saber saw):
 - Roof-Vented: cut out the shaded area marked L on the upper cabinet template.
 - Room-Vented: go to STEP 5, INSTALL THE MOUNTING PLATE,
- 5. Complete whichever venting system you have chosen. Use caulking compound to seal the exterior wall or roof opening around the wall cap or roof cap.

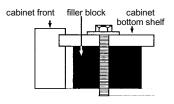


Figure 24

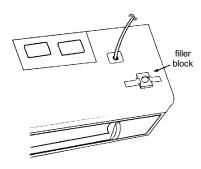


Figure 25

STEP 5: Install The Mounting Plate

The Oven Must Be Connected To At Least One Wall Stud.

- Draw a vertical line on the wall at the center of the 30 wide space. Use the mounting plate as the template for the rear wall. Place the mounting plate on the wall, making sure that the tabs are against the bottom of the cabinet. Line up the notch and center line on the mounting plate to the center line on the wall.
- 2. While holding the mounting plate with one hand, draw circles on the wall at holes A, B, C and D. Four holes must be used for mounting. If the holes are not used, the installation will not be secure. Installer must use these holes for proper installation. Use toggle bolts through these holes unless one of them lines up with a stud. Use a wood screw for studs.
- **NOTE:** Draw a fifth circle inside area E, through one of the bottom holes to match the location of a stud.

For wall-vented: The oven requires a rear wall cutout opening for the rear wall duct and the exhaust adaptor must be attached to the mounting plate. See the next page on how to prepare the rear wall cutout opening and the exhaust adaptor/mounting plate for wall-vented.

- 3. Drill holes on the circles. If there is a stud, drill a 3/16 hole for lag screws. If there is no stud, drill a 5/8 hole for toggle bolts. Make sure to use at least 1 lag screw in a stud, and 4 toggle bolts in the drywall or the plaster.
- 4. Attach the plate to the wall. To use spring toggle head bolts: Remove the toggle wings from the bolts. Insert the bolts into the mounting plate and replace the spring toggle head to 3/4 past the bolt ends. Insert the spring toggle head into the holes in the wall to mount the plate. You may pull forward on the plate to help in tightening the toggle bolts. Tighten all bolts.

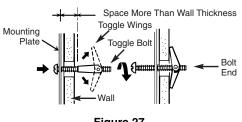
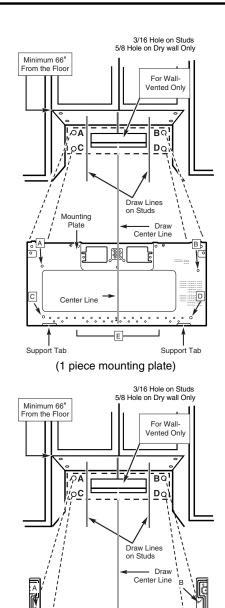


Figure 27



Mounting

Plate

Support Tab

E

(3 pieces mounting plate)

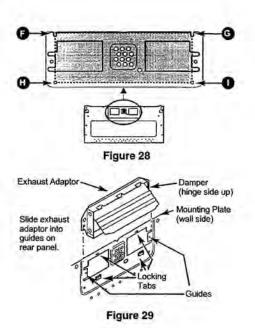
Figure 26

Support Tab

STEP 5: Install The Mounting Plate

TO PREPARE THE REAR WALL CUTOUT OPENING AND EXHAUST ADAPTOR/MOUNTING PLATE FOR WALL VENTING AND ROOF VENTING:

- Place the mounting plate against the rear wall as described in step 5 item 1.
- Using a pencil, put dots through slots F and G, and through holes H and I. Remove the mounting plate and draw lines extending through the points. This will give the location and size of the box cutout for the rear wall duct. See Figure 28.
 - Attach the exhaust adaptor to the rear mounting plate by sliding it into the guides at the top center of the plate on the wall side. Push in securely until it is past the top locking tabs and in the lower locking tabs. Take care to assure the damper hinge is installed so that it is at the top and that the damper swings freely.
 - Carefully guide the exhaust adaptor, now attached to the mounting plate, into the house duct. Before using the screws to attach the plate to the wall. This will assure proper alignment for installation. See Figure 29.
- Return to step 5, item 3 to continue. After completing the installation of the mounting plate, again check the rear damper for free movement to assure it will operate properly.



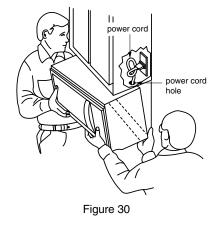
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STEP 6: Attach The Oven To The Wall

🛦 w a r n i n g 🛦

To avoid risk of personal injury or property damage, you will need two people to install this microwave oven.

- 1. Carefully lift microwave oven and hang it on support tabs (See Figure 26 at the bottom of the mounting plate.) Reaching through upper cabinet, thread power supply cord through the power supply cord hole in the bottom of the upper cabinet. See Figure 30.
- 2. Rotate the microwave oven upward so the top of oven is against the bottom of the upper cabinet or cabinet frame.
- Insert a bolt down through each hole in the upper cabinet bottom. See Figure 31. Tighten the bolts until the gap between the upper cabinet and microwave oven is closed.
- 4. If wall vented or room vented installation is used, go to No.7 on the next page.



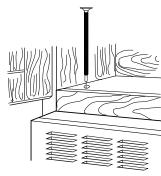


Figure 31

STEP 6: Attach The Oven To The Wall

- Roof venting installation: Install ductwork through the vent opening in the upper cabinet. Complete the venting system through the roof according to the method needed. See Figure 33. See PREPARE THE VENTING SYSTEM, STEP 2. Use caulking gun to seal the exterior roof opening around the exhaust cap. See Figure 6.
- 6. Use the power supply cord clamp to bundle the power supply cord. Install the power supply cord clamp, using a screw as shown in Figure 33, to inside of the cabinet.
- 7. Grasp filter screen with one hand holding the ring and the other hand holding the opposite end. Insert the end of the filter screen without ring into the opening and slide towards the side of the microwave oven. Insert ring end of filter screen into the opening and slide entire screen towards the center of the microwave until screen is securely in position. Repeat for other filter screen. See Figure 34.
- 8. Plug in the power supply cord.
- 9. Read your Owner's Manual, then check the operation of your microwave oven.

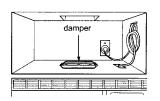


Figure 32

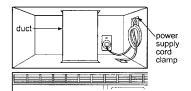


Figure 33

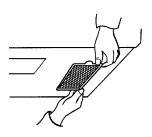


Figure 34

Appendix B

CARE AND CLEANING

For best performance and safety, keep the oven clean inside and outside. Take special care to keep the inner door panel and the oven front frame free of food or grease build-up. **Never use rough powder or pads.** Wipe the microwave oven inside and out, including the hood bottom cover, with a soft cloth and a warm (not hot) mild detergent solution. Then rinse and wipe dry. Use a chrome cleaner and polish on chrome, metal and aluminum surfaces. Wipe spatters immediately with a wet paper towel, especially after cooking chicken or bacon. Clean your oven weekly or more often, if needed.

CLEANING THE GREASE FILTER

A CAUTION

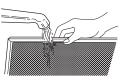
To avoid risk of personal injury or property damage, do not operate oven hood without filters in place.

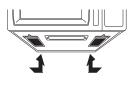
The grease filter should be removed and cleaned often, at least once a month.

- 1. To remove grease filter, slide filter to the side. Pull filter downward and push to the other side. The filter will drop out.
- drop out.
 2. Soak grease filter in hot water and a mild detergent. Rinse well and shake to dry.
 Do not use ammonia or place in a dishwasher.
- darken.3. To reinstall the filter, slide it into the side slot, then push up and toward oven center to lock.

The aluminum will





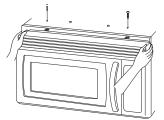


CHARCOAL FILTER REPLACEMENT

If your oven is vented inside, the charcoal filter should be replaced every 6 to 12 months, and more often if necessary. The charcoal filter cannot be cleaned.

Filter kit #: MVHRK4.

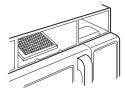
- 1. Unplug the oven or turn off power at the main power supply.
- 2. Remove the two vent grille mounting screws. (2 screws)
- 3. Tip the grille forward, then lift it out.



- 4. Open the door.
- 5. Push the hook and remove old filter.



6. Slide a new charcoal filter into place and close the door. The filter should rest at the angle shown.



7. Slide the bottom of the vent cover into place. Push the top until it snaps into place. Replace the mounting screws. Turn the power back on at the main power supply and set the clock.