Owner's Manual



Commercial Combination Oven (Microwave and Convection)

Keep these instructions for future reference. If the equipment changes ownership, be sure this manual accompanies equipment.

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When contacting Amana, provide product information. Product information is located on oven serial plate. Record the following information:

Model Number:
Serial or S/N Number:
Date of installation:
Dealer's name and address:

Any questions or to locate an authorized Amana servicer, call Amana ComServ Service Support.

- -Inside the U.S.A. or Canada, call toll-free at 866-426-2621.
- -Outside the U.S.A. and Canada, call 319-622-2808.
- -Email: Commercialservice@amana.com.

Warranty service must be performed by an authorized Amana servicer. Amana also recommends contacting an authorized Amana servicer, or Amana ComServ Service Support if service is required after warranty expires.

Unpacking Oven

- Inspect oven for damage such as dents in door or inside oven cavity.
- Report any dents or breakage to source of purchase immediately. Do not attempt to use oven if damaged.
- Remove all materials from oven interior.
- If oven has been stored in extremely cold area, wait a few hours before connecting power.

Radio Interference

Microwave operation may cause interference to radio, television, or a similar oven. Reduce or eliminate interference by doing the following:

- Clean door and sealing surfaces of oven according to instructions in *Care and Cleaning* section.
- Place radio, television, etc. as far as possible from oven.
- Use a properly installed antenna on radio, television, etc. to obtain stronger signal reception.

Oven Placement

- Do not install oven next to or above source of heat, such as pizza oven or deep fat fryer. This could cause microwave oven to operate improperly and could shorten life of electrical parts.
- Do not block or obstruct oven filter. Allow access for cleaning.
- Install oven on level countertop surface.
- If provided, place warning label in a conspicuous place close to microwave oven.
- Outlet should be located so that plug is accessible when oven is in place.



- A—For North American (UL/CSA) models, allow at least 2" (5.1 cm) of clearance around top of oven. For International (50 Hz) models, allow at least 7" (17,8 cm) of clearance around top of oven. Proper air flow around oven cools electrical components. With restricted air flow, oven may not operate properly and life of electrical parts is reduced.
- B—Allow at least 2 9/16" (6,5 cm) between air discharge on back of oven and back wall.
- C-Allow at least 1 1/4" (3 cm) of clearance around sides of oven.

Oven Clearances

The switching operation of this microwave oven can cause voltage fluctuations on the supply line. The operation of this oven under unfavorable voltage supply conditions can have adverse effects. This device is intended for the connection to a power supply system with a maximum permissible system impedance Zmax of **1.1 Ohm** at the interface point of the user's supply. The user has to ensure that this device is connected only to a power supply system which fulfills the requirement above. If necessary, the user can ask the public power supply company for the system impedance at the interface point.

WARNING

To avoid risk of electrical shock or death, this oven must be grounded and plug must not be altered.



Earthing Instructions Oven MUST be grounded.

Grounding reduces risk of electric shock by providing an escape wire for the electric current if an electrical short occurs. This 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.

Consult a qualified electrician or servicer if grounding instructions are not completely understood, or if doubt exists as to whether the oven is properly grounded.

Do not use an extension cord.

If the product power cord is too short, have a qualified electrician install a three-slot receptacle. This oven should be plugged into a separate circuit with the electrical rating as provided in product specifications (available on Amana's wavelink website). When the combination oven is on a circuit with other equipment, an increase in cooking times may be required and fuses can be blown.

External Equipotential

Earthing Terminal (export only) Equipment has secondary earthing terminal. Terminal provides external earthing connection used in addition to earthing prong on plug. Located on outside of oven back, terminal is marked with symbol shown below.



Display and Features



A—Oven Door Handle (Lift to open.) B—Rack Guides C—Top Control Panel D—Display E—Side Control Panel G—Air Intake Filter (some models)

Oven Features

Standby shows in display after oven door has been opened and closed, or after turning oven OFF with the Preheat On/Off pad.



Oven Preheating 450°F

Oven Preheating and set temperature shows in display after pressing Preheat On/Off pad. (example of 450°F shown)





Preheat On / Off Time Temp Entry Entry Stage

a a lata a Dia a lava

Power

Level

Stage

Program

Save



Start pad The Start pad is

used to begin a manual time entry cooking cycle.



Stop/Reset

The Stop/Reset pad stops a cooking sequence in progress, clears out any remaining time, and also ends a programming or user option cycle. When the Stop/Reset pad is used to end a programming or option change, the changes are discarded.

Temperature warnings

The combination oven has two distinct temperature warnings. Warnings sound with a three beep signal when a programmed pad is pressed. Warnings are:

- A warning when the preheat temperature does not match the preprogrammed temperature of a cooking condition.
- A warning when the actual oven cavity temperature is not to preheat temperature, such as when the oven is first started.

To override the warning and begin a cooking cycle, press the Start pad. To turn off warnings, see *User Options* section.

Cooking Display	
DISPLAYS	DESCRIPTION
OVEN PREHEATING 450°F	Oven Preheating 450°F displays when oven turned on and is warming up to the selected preheat temperature. Oven Preheating also flashes when a cooking condition can be started programmed. (example of 450°F shown)
READY 450°F	Ready 450°F displays when oven has reached preheat temperature and is ready to cook. Reac also flashes when a cooking condition can be started or programmed. (example of 450°F shown)
00:00	Displays cooking time. If stage cooking is programmed, total cooking time is displayed.
MW 50%	MW 50% displays the current microwave powe level. 100% is the highest setting, and 0% is low (no microwave energy used). (example of 50% show
ITEM-05	ITEM-05 displays the single or double digit entrois of a programmed cooking condition when using programmed pad. (example of Item 05 shown)
STAGE 1	Stage 1 displays to show the stage number (1 through 4) the oven is at in the cooking condition
STANDBY	STANDBY displays when oven is turned off, ar also after the oven is plugged in, the door is opened, and then shut.

Programming Display

DISPLAYS	DESCRIPTION
Enter Program to Add/Review:	Displays when oven is in programming mode for single pad or double pad memory.
STAGE 1	Displays stage number during cooking or when programming a specific cooking stage. Stage number (1 through 4) indicates the stage that is being used.



- convection only.
- 7. Press Program Save pad to save the program changes.
- 8. To discard changes, press Stop/Reset pad.

Programming Multiple Stages

Stage cooking allows consecutive cooking cycles without interruption. Up to four different cooking cycles can be programmed into a memory pad. To use stage cooking:

- 1. Follow steps 1 through 6 above.
- 7. Press Stage pad.

5.

- This will begin programming for the next cooking stage.
- Display indicates stage to be programmed.
- Enter cook time, temp and power level as in steps 4.5 and 6.
- To enter another cooking stage for that pad, press Stage pad again.
- Up to four different stages can be programmed.
- 8. Press Program Save pad to save the program and changes.
- 9. To discard changes, press Stop/Reset pad before pressing Program Save pad.

Programming **Preheat Setting**

The convection temperature setting can be set between 150°F to 475°F (65°C to 250°C). It is recommended to set the preheat setting to the most commonly used temperature for that oven. The factory default preheat setting is 450°F (230°C).

To program the preheat setting:

- Press Program Save pad.
- 2. Press Temp Entry pad.
- 3. Enter desired temperature by using the numeric key pads.
 - Temperature must be entered in 25°F (10°C) increments. If not, the temperature will automatically change to the nearest 25°F (10°C).
- Preheat temperature is changed.



Program

Save

Stage

Program Save

What is stage cooking?

Stage cooking enables several different cooking cycles, or

stages, to be used consecutively without repeated input from the user. Stage cooking can be set to defrost food initially, then cook it, and then keep the food warm until serving time.

Example of Stage Cooking Conditions

		J	3	
	Stage 1	Stage 2	Stage 3	Stage 4
Temp	450°F	450°F	450°F	450°F
Power	100%	30%	0	50%
Time	2:30	1:30	1:30	1:00



CAUTION

To avoid risk of burns, handle utensils, racks, and door with care. Allow oven, utensils, and racks to cool before cleaning. Oven, utensils, and racks, become hot during operation.

To operate the oven for convection cooking only, you can use preprogrammed pads or manual time entry. **The following instructions are for convection cooking only.** For combination cooking, see that section.

Convection Cooking

Convection cooking utilizes both a convection element and fan to evenly distribute heated air throughout the oven cavity. By circulating air, no hot or cold spots occur, creating a consistent temperature envelope around the food. These consistent temperatures cook food evenly and reduces cooking time. Oven will always operate in convection mode.

- 1. Press Preheat On/Off pad to start the oven.
 - Oven begins a preheat cycle.
 - Oven Preheating 450°F shows in display. (example of 450°F shown)

Convection Cooking with Programmed Pads



Preheat

On / Off

Time Entry

Temp

Entry

Power

Level

Start

- To change preheat temperature, see Programming.
- 2. Oven reaches preheat temperature.
- Signal sounds and Ready 450°F displays.
- 3. Press selected pad.
 - If using single pad programming, press pad and oven begins automatically.
 - For double pad programming, press pads in proper sequence and oven begins automatically.
- 4. Cooking cycle begins
- Preprogrammed cooking program, total cooking time, cooking temperature, percentage of microwave power, and stage are all displayed.
 5. Oven finishes cooking sequence
 - An end of cycle beep signals the end of the cooking cycle.
 - Done shows in display.
 - Oven interior and cooking dish will be hot.
- 6. Press Preheat On/Off pad to shut off oven.

Convection Cooking Using Manual Cooking Operation

- 1. Press Preheat On/Off pad to start the oven.
 - Oven begins a preheat cycle.
 - Oven Preheating 450°F shows in display. (example of 450°F shown)
 - To change preheat temperature, see Programming.
- 2. Oven reaches preheat temperature.
- Signal sounds and Ready 450°F displays.
- 3. Press Time Entry pad.
- Enter desired cooking time by using the numeric keypad.
- 4. Press Temp Entry pad if cooking temperature differs from preheat temperature.
- Enter the new temperature.
- 5. Press Power Level pad.
 - Press numeric key pad for desired level. Press numeric key pad again to set power level to 100%.
 - For a lower microwave power, press pads 1 (for 10%) through 9 (for 90%). 0 turns off the microwave power and cooking is by convection only.
- 6. If stage cooking is desired, press Stage pad and repeat steps 3,
 - 4, and 5.
 - Up to 4 different stages can be programmed.
- 7. Press the Start pad to begin the cooking cycle.



Preheat On / Off

To avoid risk of burns, handle utensils, racks, and door with care. Allow oven, utensils, and racks to cool before cleaning. Oven, utensils, and racks, become hot during operation.

To operate the oven for combination cooking, you can use preprogrammed pads or manual time entry. **The following instructions are for combination cooking only.** For convection only cooking, see that section.

Combination Cooking With Preprogrammed Pads

- 1. Press Preheat On/Off pad to start the oven.
 - Oven begins a preheat cycle.
 - Oven Preheating 450°F shows in display. (example of 450°F shown)
 - To change preheat temperature, see Programming.
- 2. Oven reaches preheat temperature.
 - Signal sounds and Ready 450°F displays.
- 3. Press selected pad.
 - If using single pad programming, press pad and oven begins automatically.
 For double pad programming, press pads in proper sequence and oven
 - For double pad programming, press pads in proper sequence and oven begins automatically.
- 4. Cooking cycle begins
 - Preprogrammed cooking program, total cooking time, cooking temperature, percentage of microwave power, and stage are all displayed.
- 5. Oven finishes cooking sequence
 - An end of cycle beep signals the end of the cooking cycle.
 - Done shows in display.
 - Oven interior and cooking dish will be hot.
- 6. Press Preheat On/Off pad to shut off oven.



7. Press the Start pad to begin the cooking cycle.

Combination Cooking

The combination mode uses both the speed of **microwave energy** and browning of **convection** cooking to yield fast, high quality food.

- Microwave cooking uses
 high frequency energy
 waves to heat the food.
 When cooking, microwave
 energy causes food
 molecules to move rapidly.
 This rapid movement
 between the food
 molecules creates heat,
 which cooks the food.
 POWER displays when
 oven is generating
 microwave energy for the
 current cycle.
- Convection cooking uses the selected oven temperature to bake and brown foods. The circulating air surrounds food in an envelope of evenly heated air.
- Oven will maintain a minimum convection temperature of 65°C (150°F) to ensure drier air and more even cooking.



Didn't like an option?

Factory settings are marked in bold. To change the oven back to the factory setting, simply select the option that is marked in bold.

My changes weren't saved.

In order for any changes to be saved, the Program Save pad must be pressed after selecting an option. Pressing the Stop/Reset pad will not save changes.

Changing user options

Options such as single or double pad programming, beep volume, and maximum cooking time can be changed to suit individual preferences.

To change options oven STANDBY must display:

- 1. Press hidden pad.
 - Pad is unmarked and located to the direct left of Preheat On/Off pad.
- Nothing will be displayed when hidden pad is pressed.
- 2. Press Program Save pad.
 - The first user option will display. Oven is now in options mode.
- 3. Press number pad that controls option to be changed.
 - See table below for options.
 - Current option will display.
- 4. Press numeric pad again to change the option.
 - Each time pad is pressed, option will change.
 - Match code displayed with code for desired option.
 - To change additional options, repeat steps 3 and 4.
 - Changes take affect after pad is pressed.
- 5. Press Stop/Reset pad to return to STANDBY, or open and close oven door.

Numbered Pads	Display	Options (Factory Settings in Bold)
1	Disabled	Allows 10 (0-9) preprogrammed pads.
Double Digit Entry	Enabled	Allows 100 (00-99) preprogrammed pads.
2	Disabled	Manual time entry/cooking not allowed
Manual Programming	Enabled	Manual time entry/cooking allowed
3	Disabled	Opening oven door does not reset oven back to ready mode
Reset on Door Open	Enabled	Opening oven door resets the oven back to ready mode
4	OFF	Keys do not beep when pressed (keybeep off)
Keybeep	ON	Keys beep when pressed (keybeep on)
	OFF	Keybeep volume OFF
5	LOW	Keybeep volume LOW
Speaker Volume	MEDIUM	Keybeep volume MEDIUM
	HIGH	Keybeep volume HIGH
	Solid Beep	Food done signal is a continuous beep until reset by user
6	3 Second Beep	Food done signal is a three second beep
End of Cook Signal	4 Beeps Once	Food done signal is four beeps, continuously
	4 Beeps Repeating	Food done signal is four beeps, four times
	15 SECONDS	Keypad time entry window is 15 seconds
7	30 SECONDS	Keypad time entry window is 30 seconds
Keypad Active	60 SECONDS	Keypad time entry window is one minute
Reypau Active	120 SECONDS	Keypad time entry window is two minutes
	ALWAYS	Keypad time entry window is always active
	Disabled	Both temperature warnings off
8	Program Warning Only	Warning only when preheat temperature does not match preprogrammed temperature
Preheat Warning	Preheat Warning Only	Warning only when actual oven cavity temperature is not to preheat temperature
	Both	Both temperature warnings on
TEMP PAD	FAHRENHEIT	Temperatures are displayed in °F for 60 Hz models
Temperature Units	CELSIUS	Temperatures are displayed in °C for 50 Hz models
STAGE PAD	Disabled	Oven will not display Clean Filter
Clean Filter Message	Weekly	Oven will display Clean Filter every seven (7) days
(Frequency)	Monthly	Oven will display Clean Filter every thirty (30) days
(i requeitcy)	Quarterly	Oven will display Clean Filter every ninety (90) days

EZCard Operating Instructions (some models)





Use this option only to transfer data from the oven **TO** the EZCard. **This will overwrite all programming on the EZCard!**

To transfer programming from the oven to the EZCard:

Oven must be in Standby mode (Preheat must be OFF)

- 1. Remove protective cover from bottom of vertical keypad.
- 2. Insert the EZCard into the slot located below the vertical keypad.
- The EZCard can be inserted forwards or backwards.
- Press the Program Save pad.
 Press the START pad
- Press the 1 pad, the 3 pad, and then the 5 pad.
 - The programming transfer will begin automatically and the display will show moving dashes.
- When the programming transfer is complete, DONE shows in the display for 3 seconds and the oven beeps.
 - The oven resets to the standby mode.
 - Remove the EZCard.

6.

- The programming transfer is now complete.
- 7. Place protective cover back over slot in bottom of control panel.

To order additional EZCards, call the Amana Commercial Inside Sales Team toll-free at 800-233-2366 (U.S.A. or Canada), or 319-622-8307 (outside the U.S.A. and Canada).

Moving Oven Rack Guides (some models)

The oven rack guides can be moved to one of three positions within the oven, allowing for versatility in cooking and placement of food. The middle rack position is the most common. Guides can also be removed for easier cleaning.

To remove rack guides:

- 1. Oven cavity must be cool to touch.
- 2. Remove oven rack by lifting up and sliding to the front of the oven.
- 3. Apply gentle pressure by pulling upwards on the front of rack guide.
- 4. Lift the rear of the rack guide to remove. Guide may be snug.

To replace rack guides:

- 1. Oven cavity must be cool to touch.
 - UP on guide rack should be in correct direction for placement.
- 2. Place rear of rack guide over desired anchor in back of oven and push down.
- 3. Place front of rack guide over desired anchor in front of oven.
 - Apply firm pressure to front and rear of rack guide to fit onto anchor.
 - Fit may be tight.
 - Rack guide should not move after being set in place.
- 4. Replace oven rack as desired.
 - · Slide oven rack towards rear of oven, holding upwards to avoid detents.
 - Oven rack can be placed upwards or downwards. Upwards is recommended.
 - Oven rack must be seated in detents.



Service codes

During operation, the oven may display a service code. If this should occur:

- 1. Unplug oven and leave unplugged for approximately one minute. Plug oven in and see if code reappears.
 - If code does not reappear, continue normal use with the oven.
- 2. If service code reappears, write down the service code displayed and contact the nearest authorized Amana Servicer.
 - Do not use oven until contacting the Amana Servicer.



(example)

Care and Cleaning

Clean oven frequently to maximize oven life, performance, and efficiency. A dirty oven cooks inefficiently because moisture, spills, and grease absorb convection and microwave energy.

WARNING

To avoid electrical shock which can cause severe personal injury or death, unplug power cord or open circuit breaker to oven before cleaning oven.



CAUTION

To prevent burns, handle utensils, racks, and door with care. Allow oven, utensils, racks to cool before cleaning. Oven, utensils, and racks, become hot during operation.

Cleaning the Oven

Daily Cleaning Recommendations: Follow the recommendations below for proper maintenance of this oven.

Please Note: The use of caustic cleaning products or those containing ammonia, phosphates or chlorine can damage critical oven parts and may void the warranty on those parts.

Recommended Cleaning Supplies: Plastic scraper or plastic putty knife, scrub pad or nylon sponge safe for a non-stick finish such as a light duty scrub sponge.

1. Shut oven off by pressing the Preheat On/Off pad. Open oven door and allow oven to cool (approx. 60-90 minutes).

2. Remove rack, rack guides and accessories. Wash with warm, soapy water (except for pizza stone) and allow to air dry while cleaning oven interior. Clean pizza stone by using a plastic scraper and a damp cloth only.

3. Remove baked on particles from oven floor, rear, sides, and door by using a plastic scraper. When finished scraping, use a damp cloth to remove particles from oven.

4. With rubber gloves on, spray oven door, sides and floor with EcoLab Grease Cutter NC. Allow to soak for 5-10 min.

Remove racks and rack guides for best results. Clean oven daily using EcoLab Grease Cutter NC or another noncaustic cleaner. DO NOT use caustic cleaning products or those containing ammonia, phosphates or chlorine.

NOTE: A plastic putty knife or equivalent may be used to remove baked on debris.

- Remove food from oven at end of cycle.
- Wear protective rubber gloves when cleaning oven.
- Use only a plastic putty knife, nylon scouring pad or equivalent, to aid in removing soil or build-up from the oven interior.
- **Do not use** knife, **metal** utensil, or **steel wool pad** to remove baked on material. This will damage the teflon coating.
- Refer to warranty for limitations regarding teflon interior and cleaning requirements.
- Use only accessories that are both high temperature oven-safe and microwave-safe in the oven.
- DO NOT use a water-pressure type cleaning system.
- DO NOT cook foods with plastic wrap on them.
- DO NOT use metal pans or foil in the oven.

Recommended Maintenance

Clean Heater Box (Not covered under warranty)

- Contact an authorized servicer to remove and clean heater box.
- Cleaning the heater box is recommended every 12 months or when heavy grease buildup is apparent on back of oven cavity.

WARNING

To avoid electrical shock which can cause severe personal injury or death, do not remove outer case at any time. Only an authorized servicer should remove outer case.

Problem	Possible Cause
Oven does not operate.	Confirm oven is plugged into dedicated circuit.
	Confirm oven is on grounded circuit. (Contact electrician to confirm)
	Check fuse or circuit breaker.
Oven operates intermittently or HOT shows in display.	Check air filter and discharge areas for obstructions.
If oven does not accept entries when pad is pressed.	Make sure oven is on and preheated. Open and close oven door. Press pad again.
If oven malfunctions or shows:	Oven control is equipped with a self-diagnostic system. Self-diagnostic system alerts you if there is an error or problem. When electronic control signals a problem, follow steps listed below.
Error2	1. Record number shown. (example of Error2 shown)
(example)	2. Unplug oven, wait for 1 minute, and plug in oven.
	 Disconnecting electrical supply may eliminate service code. If failure continues, contact an authorized servicer.
Oven fan turns on while oven is not preheating or cooking.	Normal operation.