

Microwave Oven

User manual

ME90H1780RAA

- For detailed instructions on installation and cleaning of the appliances, visit the Samsung website (<http://www.samsung.com>), go to Support > Support home, and then enter the model name.
- To check the product's model name, see the label enclosed with the product or attached to the product.
- Open a QR code scanner app and scan the QR code image attached to the product. You can access 'Product registration', 'Manual', and 'Customer support'.
- Figures and illustrations are provided for reference only and may differ from the actual product appearance. Product design and specifications may change without notice.

SAMSUNG

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IMPORTANT SAFETY INFORMATION

- Congratulations on your new Samsung appliances. This manual contains important information on the installation, use, and care of your appliances. Read this manual thoroughly before using the appliances to ensure that you know how to safely and efficiently operate the features and functions that your new appliances offers.

Important safety symbols

What the icons and signs in this user manual mean:



WARNING

Hazards or unsafe practices that may result in **severe personal injury, death and/or property damage.**



CAUTION

Hazards or unsafe practices that may result in **minor personal injury and/or property damage.**



Read the instructions

After reading this manual, store it in a safe place for future reference.

Read all instructions before using the appliance.



NOTE

Supplementary information that may be useful.

Congratulations on your new Samsung microwave oven. This manual contains important information on the installation, use and care of your appliance. Please take time to read this manual to take full advantage of your microwave oven's many benefits and features.

WHAT YOU NEED TO KNOW ABOUT SAFETY INSTRUCTIONS

Warnings and Important Safety Instructions in this manual do not cover all possible conditions and situations that may occur. It is your responsibility to use common sense, caution, and care when installing, maintaining, and operating your microwave oven.

PRECAUTIONS TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY

- A. Do not attempt to operate this oven with the door open since open-door operation can result in harmful exposure to microwave energy. It is important not to defeat or tamper with the safety interlocks.
- B. Do not place any object between the oven front face and the door or allow soil or cleaner residue to accumulate on the sealing surface.

- C. Do not operate the oven if it is damaged. It is particularly important that the oven door close properly and that there is no damage to the:
 - 1. Door (bent),
 - 2. Hinges and latches, (broken or loosened),
 - 3. Door seals and sealing surface.
- D. Only properly qualified service personnel should adjust or repair the oven. Do not attempt to adjust or repair the oven yourself.

When using any electrical appliance, basic safety precautions should be followed, including the following:

WARNING

To reduce risk of burns, electric shock, fire, personal injury or exposure to excessive microwave energy:

1. Read all safety instructions before using the appliance.
2. Read and follow the specific "Precautions to avoid possible exposure to excessive microwave energy" on page 4.
3. This appliance must be grounded. Connect only to properly grounded outlets. See Important "Grounding instructions" on page 8 of this manual.
4. Install or locate this appliance only in accordance with the provided installation instructions.
5. Some products such as whole eggs and sealed containers (for example, closed glass jars) can explode if heated rapidly. Never heat them in a microwave oven.
6. Do not use this appliance for other purposes than cooking. Drying of clothing and heating of warming pads, slippers, sponges, damp cloth and similar may lead to risk of injury, ignition or fire. Use this appliance only for its intended use as described in the manual. Do not put corrosive chemicals or vapors in or on this appliance. This type of oven is specifically designed to heat, cook, or dry food. It is not designed for industrial or laboratory use.
7. **HOT CONTENTS CAN CAUSE SEVERE BURNS. DO NOT ALLOW CHILDREN TO USE THE MICROWAVE.**
8. Do not operate this appliance if it has a damaged cord or plug, if it is not working properly, or if it has been damaged or dropped.
9. This appliance should be repaired or serviced only by qualified service personnel. Contact the nearest authorized service facility for examination, repair, or adjustment.
10. Do not cover or block any openings on the appliance.
11. Do not tamper with or make any adjustments or repairs to the door.
12. Do not store this appliance outdoors. Do not use this product near water, for example, near a kitchen sink, in a wet basement, near a swimming pool, or similar locations.
13. Do not immerse the cord or plug in water.
14. Keep the cord away from heated surfaces. (including the back of the oven).
15. Do not let the cord hang over edge of table or counter.
16. When cleaning surfaces of the door and oven that come together when the door closes, use only mild, nonabrasive soaps, or detergents applied with a sponge or soft cloth. Unplug the plug before cleaning.
17. To reduce the risk of fire in the oven cavity:
 - a. Do not overcook food. Carefully watch appliance when paper, plastic, or other combustible materials are placed inside the oven to facilitate cooking.

IMPORTANT SAFETY INFORMATION

- b. Remove wire twist-ties from paper or plastic bags before placing the bags in the oven.
 - c. If materials inside the oven ignite, keep the oven door closed, turn the oven off, and disconnect the power cord, or shut off the power at the fuse or circuit breaker panel. If the door is opened, the fire may spread.
 - d. Do not use the cavity for storage purposes. Do not leave paper products, cooking utensils, or food in the cavity when not in use.
18. Liquids, such as water, milk, coffee, or tea can be overheated beyond the boiling point without appearing to be boiling. Visible bubbling or boiling when the container is removed from the microwave oven is not always present. **THIS COULD RESULT IN VERY HOT LIQUIDS SUDDENLY BOILING OVER WHEN THE CONTAINER IS DISTURBED OR A SPOON OR OTHER UTENSIL IS INSERTED INTO THE LIQUID.** To reduce the risk of injury:
- a. Do not overheat liquid.
 - b. Stir liquid both before and halfway through heating it.
 - c. Do not use straight-sided containers with narrow necks.
 - d. After heating, allow the container to stand in the microwave oven for a short time before removing the container.
 - e. Use extreme care when inserting a spoon or other utensil into the container.
19. Oversized foods or oversized metal utensils should not be inserted in microwave / toaster oven as they may create a fire of electric shock.
20. Do not clean with metal scouring pads. Piece can burn off the pad and touch electrical parts involving a risk of electric shock.
21. Do not use paper products when appliance is operated in toaster mode.
22. Do not store any materials, other than manufacturer's recommended accessories, in this oven when not in use.
23. Do not cover racks or any other part of the oven with metal foil . This will cause overheating of the oven.

IMPORTANT SAFETY SYMBOLS AND PRECAUTIONS

What the icons and signs in this user manual mean:

WARNING

Hazards or unsafe practices that may result in **severe personal injury or death**.

CAUTION

Hazards or unsafe practices that may result in **minor personal injury or property damage**.

NOTE

To reduce the risk of fire, explosion, electric shock, or personal injury when using your microwave oven, follow these basic safety precautions.

 Do NOT attempt.

 Do NOT disassemble.

 Do NOT touch.

 Follow directions explicitly.

 Unplug the power plug from the wall socket.

 Make sure the machine is grounded to prevent electric shock.

 Call the service center for help.

 Note

These warning signs are here to prevent injury to you and others. Please follow them explicitly. After reading this section, keep it in a safe place for future reference.

CAUTION

1. Clean Ventilating Hoods Frequently - Grease should not be allowed to accumulate on the hood of the filter.
2. When flaming foods under the hood, turn the fan on.
3. Use care when cleaning the vent-hood filter. Corrosive cleaning agents, such as lye-based oven cleaner, may damage the filter.

GROUNDING INSTRUCTIONS

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

WARNING

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

- Plug into a grounded, 3 pronged outlet. Do not remove the third (grounding) prong. Do not use an adaptor or otherwise thwart the safety function of the grounding plug.
- Consult a qualified electrician or service person if you do not understand the grounding instructions or if you are not sure if the appliance is properly grounded.
- We do not recommend using an extension cord with this appliance. If the power-supply cord is too short, have a qualified electrician or serviceman install an outlet near the appliance. However, if it is necessary to use an extension cord, read and follow the "Use of Extension Cords" section on the next page.

IMPORTANT SAFETY INFORMATION

USE OF EXTENSION CORDS

A short power-supply cord is provided to reduce the risk of your becoming entangled in or tripping over a longer cord. Longer cord sets or extension cords are available and you can use them if you exercise care. If you use a long cord or extension cord:

1. The marked electrical rating of the cord set or extension cord should be at least as great as the electrical rating of the appliance.
2. The extension cord must be a grounding-type 3-wire cord and it must be plugged into a 3-slot outlet.
3. The longer cord should be arranged so that it will not drape over the counter top or tabletop where it can be pulled on by children or tripped over accidentally. If you use an extension cord, the interior light may flicker and the speed of the blower may vary when the microwave oven is on. Cooking times may be longer too.

CRITICAL INSTALLATION WARNINGS



This appliance must be installed by a qualified technician or service company.

- Failing to have a qualified technician install the oven may result in electric shock, fire, an explosion, problems with the product, or injury.

Unpack the oven, remove all packaging material and examine the oven for any damage such as dents on the interior or exterior of the oven, broken door latches, cracks in the door, or a door that is not lined up correctly. If there is any damage, do not operate the oven and notify your dealer immediately.

Make sure to install your oven in a location with adequate space.

Remove all foreign substances such as dust or water from the power plug terminals and contact points using a dry cloth on a regular basis.

- Unplug the power plug and clean it with a dry cloth.
- Failing to do so may result in electric shock or fire.

Plug the power cord into a properly grounded 3 pronged outlet. Your oven should be the only appliance connected to this circuit.

- Sharing a wall socket with other appliances, using a power strip, or extending the power cord may result in electric shock or fire.
- Do not use an electric transformer. It may result in electric shock or fire.
- Ensure that the voltage, frequency and current provided match the product's specifications. Failing to do so may result in electric shock or fire.

Keep all packaging materials out of the reach of children. Children may use them for play.



This appliance must be properly grounded. Read and follow the specific "Grounding instructions" found in the beginning of this section. Do not ground the appliance to a gas pipe, plastic water pipe, or telephone line.

- This may result in electric shock, fire, an explosion, or problems with the product.
- Never plug the power cord into a socket that is not grounded correctly and make sure that it is grounded in accordance with local and national codes.

Do not cut or remove the third (ground) prong from the power cord under any circumstances.

The microwave requires a separate branch circuit single grounded outlet of at least 15A and max of 20A.



Do not install this appliance in a humid, oily, or dusty location, or in a location exposed to direct sunlight or water (rain drops).

- This may result in electric shock or fire.

Plug the power plug into the wall socket firmly. Do not use a damaged power plug, damaged power cord, or loose wall socket.

- This may result in electric shock or fire.

Do not mount over a sink.

Do not pull or excessively bend the power cord.

Do not twist or tie the power cord.

Do not hook the power cord over a metal object, place a heavy object on the power cord, insert the power cord between objects, or push the power cord into the space behind the appliance.

- This may result in electric shock or fire.

Do not pull the power cord when you unplug the oven.

- Unplug the oven by pulling the plug only.
- Failing to unplug may result in electric shock or fire.



When the power plug or power cord is damaged, contact your nearest service center for a replacement or repair.

INSTALLATION CAUTIONS



Position the oven so that the plug is easily accessible.

- Failing to do so may result in electric shock or fire due to electric leakage.



Unplug the oven when it is not being used for long periods of time or during a thunder/lightning storm.

- Failing to do so may result in electric shock or fire.

CRITICAL USAGE WARNINGS



If the microwave appliance is flooded, please contact your nearest service center. Failing to do so may result in electric shock or fire.

Read and follow the specific "Precautions to Avoid Possible Exposure to Excessive Microwave Energy", found in the beginning of this Safety Information Section.

If the microwave generates a strange noise, a burning smell or smoke, unplug it immediately and contact your nearest service center.

- Failing to do so may result in electric shock or fire.

In the event of a gas leak (propane gas, LP gas, etc.), ventilate the room immediately. Do not touch the microwave, power cord, or plug.

- Do not use a ventilating fan.
- A spark may result in an explosion or fire.

IMPORTANT SAFETY INFORMATION

Take care that the door or any of the other parts do not come into contact with your body while cooking or just after cooking.

- Failing to do so may result in burns.

In the event of a grease fire on the surface units below the oven, smother the flaming pan on the surface unit by covering the pan completely with a lid, a cookie sheet, or a flat tray.

Never leave surface units beneath your oven unattended at high heat settings. Boil overs cause smoking and greasy spillovers that may ignite and spread if the vent fan is operating. To minimize automatic fan operation, use adequate sized cookware and use high heat on surface units only when necessary.

If materials inside the oven should ignite, keep the oven door closed, turn the oven off and disconnect the power cord, or shut off power at the fuse or circuit breaker panel. If the door is opened, the fire may spread.

Use of inadequately sized cookware on top of the stove may result in melting of microwave door or other damage.

- Always observe safety precautions when using your oven. Never try to repair the oven on your own. There is dangerous voltage inside. If the oven needs to be repaired, contact an authorized service center near you.



Do not attempt to repair, disassemble, or modify the appliance yourself.

- Because a high voltage current enters the product chassis during operation, opening the chassis can result in electric shock or fire.
- You may be exposed to electromagnetic waves.
- When the oven requires repair, contact your nearest service center.



If any foreign substance such as water enters the microwave, unplug it, and then contact your nearest service center.

- Failing to do so may result in electric shock or fire.



Do not touch the power plug with wet hands.

- This may result in electric shock.

Do not turn the appliance off by unplugging the power plug while the appliance is in operation.

- Plugging the power plug into the wall socket again may cause a spark and result in electric shock or fire.

Keep all packaging materials well out of the reach of children. Packaging materials can be dangerous to children.

- If a child places a bag over its head, the child can suffocate.

Do not let children or any person with reduced physical, sensory or mental capabilities use this appliance unsupervised. Make sure that the appliance is out of the reach of children.

- Failing to do so may result in electric shock, burns, or injury.

Do not touch the inside of the appliance immediately after cooking. The inside of the appliance will be hot.

- The heat on the inside of the oven can cause burns.

Do not put aluminum foil (except as specifically directed in this manual), metal objects (such as containers, forks, etc.), or containers with golden or silver rims into the microwave.

- These objects can cause sparks or a fire.

Do not use or place flammable sprays or objects near the oven.

- Heat from the microwave can cause flammable sprays to explode or burn.
- Failing to do so may result in electric shock or injury.

Do not tamper with or make any adjustments or repairs to the door. Under no circumstances should you remove the outer cabinet.

Do not store or use the oven outdoors.

USAGE CAUTIONS



If the surface of the microwave is cracked, turn it off.

- Failing to do so may result in electric shock.

Dishes and containers can become hot. Handle with care.

Hot foods and steam can cause burns. Carefully remove container coverings, directing steam away from your hands and face.

Remove lids from baby food before heating. After heating baby food, stir well to distribute the heat evenly. Always test the temperature by tasting before feeding the baby. The glass jar or surface of the food may appear to be cooler than the food in the interior, which can be so hot that it will burn the infant's mouth.

Make sure all cookware used in the oven is suitable for microwaving.

Use microwavable cookware in strict compliance with such manufacturer's recommendations.



Do not stand on top of the microwave or place objects (such as laundry, oven covers, lighted candles, lighted cigarettes, dishes, chemicals, metal objects, etc.) on the appliance.

- Items, such as a cloth, may get caught in the door.
- This may result in electric shock, fire, problems with the product, or injury.

Do not operate the appliance with wet hands.

- This may result in electric shock.

Do not spray volatile material such as insecticide onto the surface of the appliance.

- As well as being harmful to humans, it may also result in electric shock, fire or problems with the product.

Do not place the appliance over a fragile object such as a sink or glass object.

- This may result in damage to the sink or glass object.

Do not put your face or body close to the appliance while cooking or when opening the door just after cooking.

- Take care that children do not come too close to the appliance.
- Failing to do so may result in children burning themselves.

Do not place food or heavy objects over the door when opening the door.

- The food or object may fall and this may result in burns or injury.

Do not abruptly cool the door, the inside of the appliance, or the dish by pouring water over it during or just after cooking.

- This may result in damage to the appliance. The steam or water spray may result in burns or injury.

IMPORTANT SAFETY INFORMATION

Do not cook without the glass tray in place on the oven floor. Food will not cook properly without the tray.

Do not defrost frozen beverages in narrow-necked bottles. The containers can break.

Do not scratch the glass of the oven door with a sharp object.

- This may result in the glass being damaged or broken.

Do not store anything directly on top of the appliance when it is in operation.

Do not use sealed containers. Remove seals and lids before use. Sealed containers can explode due to buildup of pressure even after the oven has been turned off.

CRITICAL CLEANING INSTRUCTIONS

Do not clean the appliance by spraying water directly onto it.

Do not use benzene, thinner, or alcohol to clean the appliance.

- This may result in discoloration, deformation, damage, electric shock, or fire.

Before cleaning or performing maintenance, unplug the appliance from the wall socket and remove food waste from the door and cooking compartment.

- Failing to do so may result in electric shock or fire.

Take care not to hurt yourself when cleaning the appliance.
(external/internal)

- You may hurt yourself on the sharp edges of the appliance.

Do not clean the appliance with a steam cleaner.

- This may result in corrosion.

Keep the inside of the oven clean. Food particles or spattered oils stuck to the oven walls or floor can cause paint damage and reduce the efficiency of the oven.

1. FCC NOTICE

FCC STATEMENT :

This equipment generates and uses ISM frequency energy and if not installed and used properly, that is in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with limits for ISM Equipment pursuant to part 18 of FCC Rules, which are designed to part 18 of FCC Rules, which are designed to provide residential installation.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following:

- Reorient the receiving antenna of the radio or television.
- Relocate the Microwave Oven with respect to the receiver.
- Move the microwave oven away from the receiver.
- Plug the microwave oven into a different outlet so that the microwave oven and the receiver are on different branch codes.

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modification to this microwave oven. It is the responsibility of the user to correct such interference.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

WARNING

Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC RF Exposure Requirements

This device complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter and must be installed to provide a separation distance of at least 20cm from all persons.

2. IC Notice

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- 1) This device may not cause interference.
- 2) This device must accept any interference, including interference that may cause undesired operation of the device.
 - CAN ICES(B)/NMB(B)

IC RADIATION EXPOSURE STATEMENT:

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated so there is at least 8 inches (20 cm) between the radiator and your body. This device and its antenna(s) must not be co-located or operated in conjunction with any other antenna or transmitter.

STATE OF CALIFORNIA PROPOSITION 65 WARNING

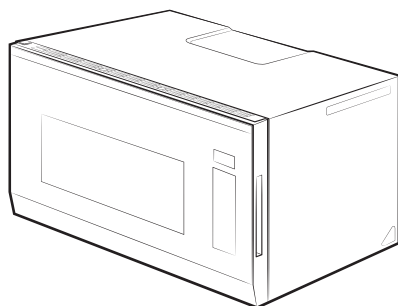
WARNING : This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Setting up your new microwave oven

Be sure to follow these instructions closely so that your new microwave oven works properly.

Checking the parts

Carefully unpack your microwave oven, and make sure you've received all the parts shown below. If your microwave oven was damaged during shipping, or if you do not have all the parts, contact the Samsung Call Center. (Refer to the "Warranty" on page 68.)



Microwave oven



* Ceramic Enamel Tray



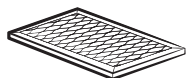
* Glass Tray



* Roller Guide Ring



* Grease Filters (2 ea)



* Charcoal Filter



* Exhaust Adaptor



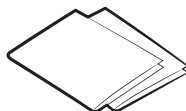
* Hardware Kit
(Screws & Brackets)



Manuals
(User & Installation)



Cooking Guide Manual



Templates
(Top & Wall)



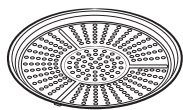
* Low Rack



* High Rack



* Pure Steam Bowl

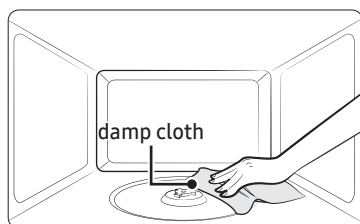


* Air Fry Max Tray
(Sold Separately)

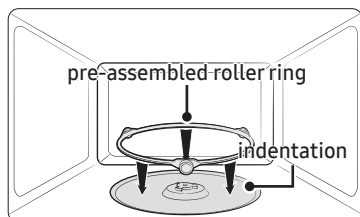
NOTE

If you need an accessory marked with an * (asterisk), please contact the Samsung Call Center using the phone number listed on the last page of this manual or visit our on-line parts web site at www.samsungparts.com.

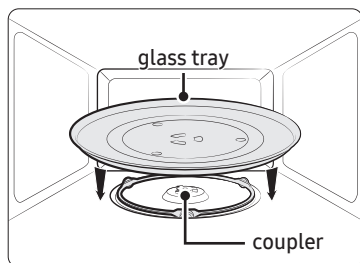
Setting up your microwave oven



1. Open the door by pulling the handle on the right side of the door.
2. Wipe the inside of the oven with a damp cloth.



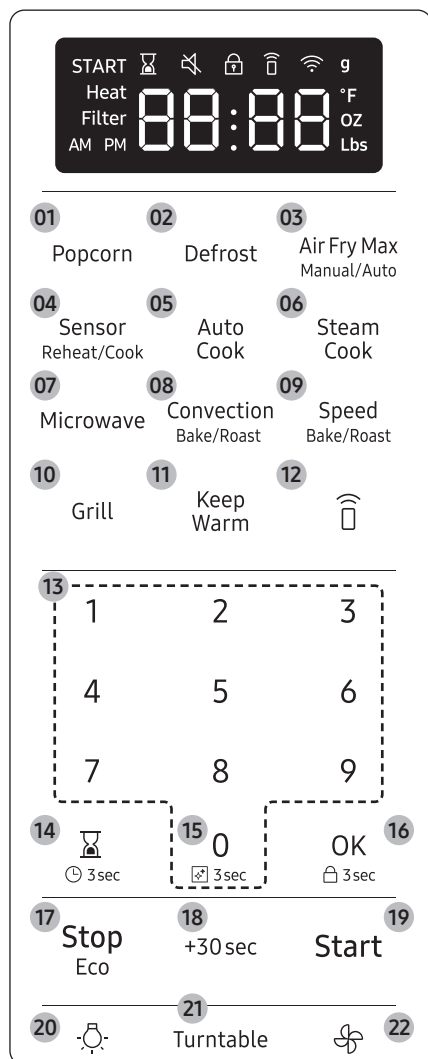
3. Install the pre-assembled ring into the indentation at the center of the microwave oven.



4. Fit the center of the glass tray to the coupler.

Setting up your new microwave oven

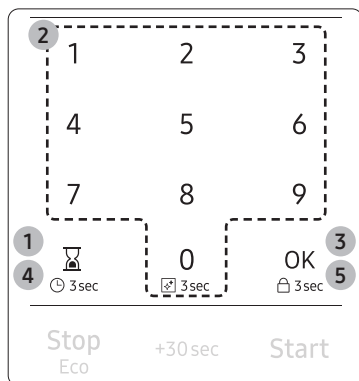
Checking the control panel



- 01 Popcorn
- 02 Defrost
- 03 Air Fry Max Manual/Auto
- 04 Sensor Reheat/Cook
- 05 Auto Cook
- 06 Steam Cook
- 07 Microwave
- 08 Convection Bake/Roast
- 09 Speed Bake/Roast
- 10 Grill
- 11 Keep Warm
- 12 Smart Control
- 13 Number Pad
- 14 Kitchen Timer/Clock Setting
- 15 Steam Clean
- 16 OK/Child Lock
- 17 Stop/Eco
- 18 +30sec
- 19 Start
- 20 Light (Hi/Low/Off)
- 21 Turntable
- 22 Vent (3 Speed & On/Off)

Clock Settings

Your microwave oven is equipped with a built-in clock. Set the clock when first installing your microwave oven or after a power failure. The time is displayed whenever the microwave oven is not being used.



1. Touch the  button for 3 seconds.
2. Use the number pad to enter the time.
3. Touch the **OK** button.
4. Touch the  button to change AM to PM. (Only for 12hr mode.)

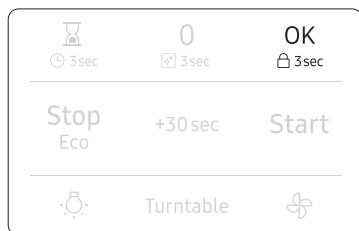
NOTE

To change the clock display settings (12hr or 24hr mode), refer to **My Settings** on page 22.

5. Touch the **OK** button.

Child Lock

The **Child Lock** function allows you to lock all buttons so that the microwave oven cannot be operated by children accidentally. The oven can be locked at any time.

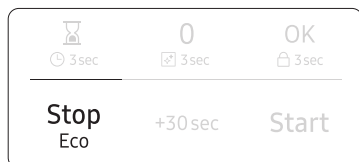


Activating / Deactivating

If you want to activate or deactivate the child lock function, touch the  button for 3 seconds.

The display will show '

Eco mode



Eco Mode reduces standby power usage. When you touch the **Stop/Eco** button once, the display will go out and the microwave shifts to a mode which minimizes power usage. To cancel the Eco Mode, touch any other button.

Setting up your new microwave oven

Smart Control

To use the microwave oven's Smart Control, you must download the SmartThings app to a mobile device. Functions operated by the SmartThings app may not work smoothly if communication conditions are poor or the microwave oven is installed in a place with a weak Wi-Fi signal.

How to connect the microwave oven

1. Download and open the SmartThings app on your smart device.
2. Follow the app's on-screen instructions to connect your microwave oven.
3. Once the process is complete, the  icon appears on your microwave oven display and the app will confirm you are connected.
4. If the connection icon does not turn on, follow the instruction on the app to reconnect.

To Start the microwave oven remotely

For safety reasons, This function is only available for convection and grill mode but not in microwave mode start.

1. After following the above steps, touch **Smart Control** to use the microwave oven remotely.
2. If  appears on the display, microwave oven can be started and controlled remotely by a connected mobile device.
3. Select the microwave oven icon on the SmartThings app and if the app is connected to the microwave oven, you can perform the following functions through the application:

Microwave Oven remote control using the SmartThings app	
Microwave Oven Monitoring	• Check the status of the microwave oven
Microwave Oven Remote Control	• Control remotely in convection and grill mode but not in microwave mode start • Remotely control vent fan speed/cooktop lamp

NOTE

- After enabling Smart Control, if you open the door before cooking starts, Smart Control will be disabled.
- Even if  does not show on the display, you can still monitor the microwave oven's status and turn the microwave oven off.
- When oven cooking is finished or cancelled,  will turn off.
- For safety reasons, you cannot turn on the microwave oven remotely and you must specify the cooking time to enable remote control.
- Smart Control will not work properly if the Wi-Fi Connection is unstable.

Voice Control

To use the microwave oven's Voice Control function, you need Bixby / Amazon Alexa App / Google Assistant App on your mobile device.

- **Bixby** : Start conversation with Bixby on Samsung mobile by saying "Hi Bixby" or by pressing the side key.

Function	OTR Bixby Command	Remarks
Start	• Start the microwave in air fry max mode at 350 degrees for 30 minutes. • Start the microwave in convection bake mode at 350 degrees for 30 minutes • Start the microwave in convection roast mode at 350 degrees for 30 minutes • Start the microwave in keep warm mode for 30 minutes • Start the microwave in grill mode for 30 minutes • Set Air fry max mode in the microwave at 350 degrees • Convection bake in the microwave at 350 degrees • Convection roast in the microwave at 350 degrees • Keep warm in the microwave • Grill in the microwave	• Air Fry Max 350°F(177°C), 375°F(191°C), 400°F(204°C), 425°F(218°C) • Convection Bake 100°F(38°C), 200°F(93°C), 225°F(107°C), 250°F(121°C), 275°F(135°C), 300°F(149°C), 325°F(163°C), 350°F(177°C), 375°F(191°C), 400°F(204°C), 425°F(218°C) • Convection Roast 200°F(93°C), 225°F(107°C), 250°F(121°C), 275°F(135°C), 300°F(149°C), 325°F(163°C), 350°F(177°C), 375°F(191°C), 400°F(204°C), 425°F(218°C)
Turn Off/Stop	• Cancel the microwave • Turn off the microwave	-
Check Temp	• What is the temperature of the microwave • Check the microwave temperature	-
Check Time	• Check the remaining time of the microwave • How much time is left on the microwave timer?	-
Check Status	• Check the microwave status • Check the status of the microwave	-
Temp Control	• Set the temperature of the microwave to 300 • Increase the temp of the microwave by 20 • Decrease the temp of the microwave by 20 • Turn the microwave temperature up to 100 degrees • Turn the microwave temperature down to 50 degrees	-
MW Hood Control	• Turn on/off the microwave hood light • Turn on/off hood power of microwave • Turn on/off hood fan of microwave • Set the microwave hood fan speed to high/mid/low	-
Oven Timer (Change Cook Time)	• Set the timer on the microwave to 1 hour	-

Setting up your new microwave oven

- **Amazon Alexa & Google Assistant** : Samsung smart home appliances are supported by SmartThings skill in Alexa & action in Google Assistant.

Installation Guide

Here's how to link SmartThings account into Amazon Alexa or Google Assistant. SmartThings App and Alexa App(or Google Assistant App) Should be installed on your phone.

1. Setup the supported devices to SmartThings.
2. After device setup, tap + button on the screen.
3. Tap 'Voice assistant' and link your Samsung account to Amazon Alexa. (or Google Assistant)
4. Check the devices are visible on Amazon Alexa app. Then account linking is complete. (Check the devices are visible and set the location(home&room) of devices in Google home app. Then account linking is complete.)

Function	"Alexa"	"Ok Google"
Start	• Set the microwave to Microwave • Set the microwave to Grill • Set the microwave to Convection bake • Set the microwave to Convection roast • Set the microwave to Keep warm	• Set the microwave to Microwave • Set the microwave to Convection bake • Set the microwave to Convection roast • Set the microwave to Keep warm
	• Set the microwave to Convection bake for 1 hour [Time] at 350 degrees [Temp] • Set the microwave to Convection roast for 1 hour [Time] at 350 degrees [Temp] • Convection bake for 1hour [Time] at 350degrees [Temp] • Convection roast for 1hour [Time] at 350degrees [Temp]	
	• Set the microwave to Convection bake at 350 degrees [Temp] • Set the microwave to Convection roast at 350 degrees [Temp] • Convection bake at 350 degrees [Temp] • Convection roast at 350 degrees [Temp]	
	• Set the microwave to Microwave for 90 seconds [time] • Set the microwave to Grill for 30 minutes [time] • Set the microwave to Convection bake for 1 hour [time] • Set the microwave to Convection roast for 1 hour [time] • Set the microwave to Keep warm for 1 hour [time]	

- If the Smart Control is "ON", it will start remotely.
- If the Smart Control is "OFF", only the setting value can be delivered.
(Microwave mode can only delivered setting value)

Function	"Alexa"	"Ok Google"
Turn Off/Stop	• Turn off the microwave • Stop the microwave	• Turn off the microwave • Stop the microwave
Pause	• Pause the microwave	• Pause the microwave
Resume	• Resume the microwave	• Resume the microwave • Restart the microwave
Check Temp	• What is the temperature of the microwave?	• What is the temperature of the microwave?
Check Time	-	• What time is left on the microwave?
Check Status	• Is the microwave running? • Is the microwave on?	• Is the microwave running? • Is the microwave on?
Set Timer	• [2 minutes] on the microwave e.g. - 90 seconds on the microwave (*While running) : Changing cook time (*Ready) : Set requested time with microwave mode as default	• Set the microwave to [5 minutes] e.g. - Set the microwave to 2 minutes (*While running) : Changing cook time (*Ready) : Set requested time with microwave mode as default
Adjust timer	• Add [10 minutes] to the microwave • [30] more [seconds] to the microwave e.g. - 2 more minutes to the microwave (*While running) : Adding cook time (*Ready) : Set requested time with microwave mode as default	• Add [30 seconds] to the microwave e.g. - Add 30 seconds to the microwave (*While running) : Adding cook time (*Ready) : Set requested time with microwave mode as default
Set temperature	• Set microwave to [200 (degrees, Celsius, Fahrenheit)] • Set [device name] to [200 (degrees, Celsius, Fahrenheit)]	• Set the microwave to [200 degrees, Fahrenheit, Celsius]
MW Hood Control	• Turn on/off the (hood light, hood lamp, lamp, light) on microwave • Turn on/off the (hood light, hood lamp) • Set the microwave (brightness, light level, lamp level) to [low, high] • Turn on/off the (hood, fan, hood fan) on microwave[device name] • Turn on/off the (hood, hood fan) • Set the microwave (hood, fan, hood fan) speed to [low, medium, high]	• Turn on/off the microwave (light, lamp) • Turn on/off the (hood light, hood lamp) • Set the microwave (brightness, light level, lamp level) to [low, high] • Turn on/off the (hood, fan, hood fan) on microwave • Turn on/off the (hood, hood fan) • Set the microwave (hood, fan, hood fan) speed to [low, medium, high]

Setting up your new microwave oven

NOTE

- **Bixby** : Only remote start function is possible. It's impossible to deliver only setting value. (Unable to control microwave mode)
- **Amazon Alexa & Google Assistant** : For safety reasons, you cannot turn on the microwave oven remotely, only setting value can be delivered.
- If the time or temperature information is not mentioned, it will operate with default time and temperature setting.
- Smart Control On/Off spec is same as SmartThings app note.

Auto Connectivity

Auto Connectivity function lets you quickly connect the hood via Wi-Fi with a compatible Samsung cooktop after the hood and cooktop have been paired. To turn the function on, press the Auto Connectivity button in SmartThings App. To disconnect the hood and cooktop, press the Auto Connectivity button again. While the hood and cooktop are connected, the hood fan will automatically turn on when you turn on the cooktop. The hood fan will also turn off automatically when you turn off the cooktop.

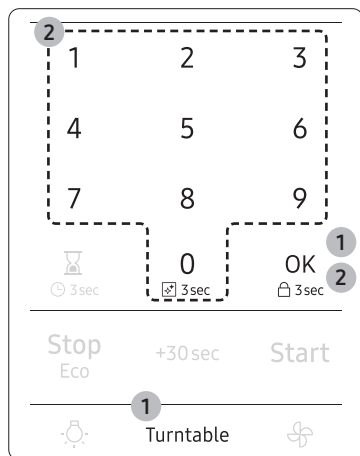
NOTE

Auto connectivity function may not work normally when the temperature is set high.

My settings

You can customize your new microwave oven to suit your preferences.

To customize:



1. Touch the **Turntable** button for 3 seconds.
Touch the **number pad** to select a function you want to customize (Refer to the table below.) and then touch **OK** button.
2. Touch number **1** or **2** to change the options and then touch **OK**. (Number of the options are listed on the table below.)

Corresponding number for functions and options are listed in the table below.

No.	Function	Description	Options	
1	Weight Display	Pounds and grams are able for Weight Display options.	1	lbs
			2	g
2	Clock Display	The clock can display in either the 12 HR or 24 HR time mode.	1	12 Hr
			2	24 Hr
3	Sound	Sound can be turned On and Off.	1	ON
			2	OFF
4	Remind End Signal	The Remind End Signal can be turned On and Off.	1	ON
			2	OFF
5	Filter Remind	The Filter Remind function can be turned On and Off.	1	ON
			2	OFF
6	Wi-Fi	The Wi-Fi function can be turned On and Off.	1	ON
			2	OFF

NOTE

- If you change your mind while adjusting a setting, touch the **Stop/Eco** button to cancel, and then adjust the setting again.
- If there is a power interruption, you will need to reset '**Filter Remind**' options.

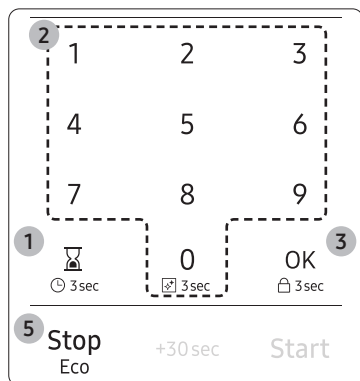
Filter Reminder

If the **Filter Remind** function is **ON**, the microwave will remind you to clean or replace the grease filter every four months. When it is time to clean or replace the grease filter, the microwave displays the "Filter" message to remind you to clean or replace the grease filter. To remove the message, touch the number 0 when the microwave is in standby mode. If you don't want to receive this message, set the **Filter Remind** function off in **My settings**.

Operations

Kitchen Timer

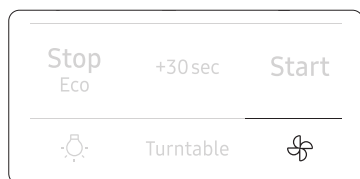
Your microwave has a built-in timer function - the Kitchen Timer. Use the Kitchen Timer for timing up to 99 minutes, 99 seconds.



1. Touch the  button.
2. Use the **number pad** to set the time you want the timer to run. (Max time 99 minutes, 99 seconds.)
3. Touch the **OK** button.
4. The display counts down and beeps when the time has elapsed.
5. To cancel the timer setting :
Touch the **Stop/Eco** button once.

Vent Fan (High/Mid/Low/Off)

The vent fan removes steam and other vapors that result from cooking on the cooktop below.



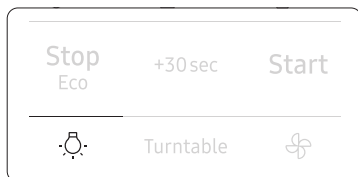
Touch the  button once for high fan speed, twice for medium fan speed, and three times for low fan speed. Touch the  button four times to turn the fan off.

On the display 3, 2, 1, OFF will appear instead of High, Mid, Low, Off.

NOTE

- The exhaust fan's speed will decrease when the oven's cooking function is activated.
- The Vent Fan protects the microwave from excess heat rising from the cooktop below it. It automatically turns on if it senses too much heat. If you have turned the fan on, you may find that you cannot turn it off. The fan will automatically turn off when the internal parts are cool. It may stay on for 30 minutes or more after the cooktop and microwave controls are turned off.

Cooktop Lamp (High/Low/Off)



Touch the  button to turn the cooktop lamp on or off. Touch the button once for high, twice for low, and three times to turn the cooktop lamp off.

On the display Hi, Lo, OFF will appear instead of High, Low, Off.

Turntable



For best cooking results, leave the turntable on. However, for large dishes it can be turned off.

Touch the Turntable button to turn the turntable on or off.



CAUTION

The turntable may become too hot to touch.

Use pot holders to handle the turntable during and after cooking.

Stop/Eco button

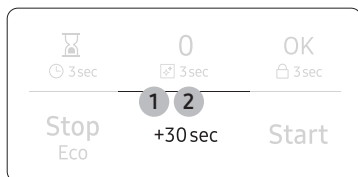
The Stop/Eco button allows you to clear instructions you have entered.

It also allows you to pause the oven's cooking cycle, so that you can check the food.

- To pause the oven during cooking, touch the **Stop/Eco** button once. To restart, touch the **Start** button.
- To stop cooking, erase instructions, and return the oven display to the time of day, touch the **Stop/Eco** button twice.
- To clear instructions you have just entered, touch the **Stop/Eco** button once, and then re-enter the instructions.
- To cancel a kitchen timer setting, touch the **Stop/Eco** button once.

+30sec button

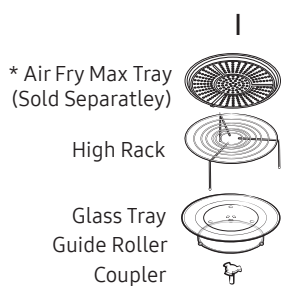
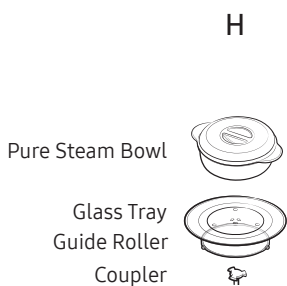
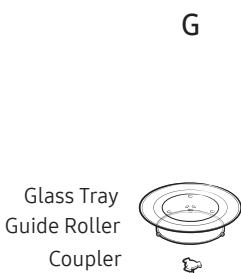
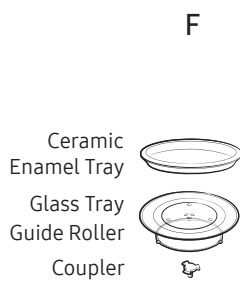
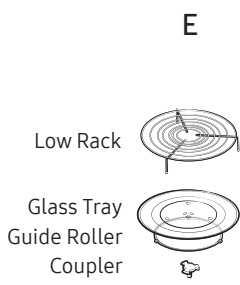
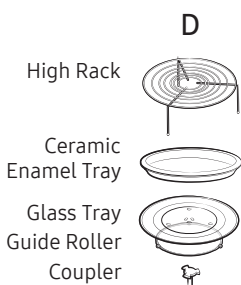
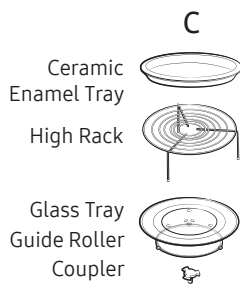
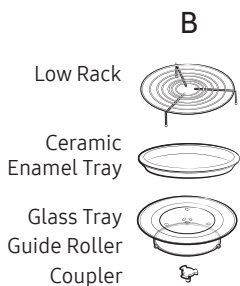
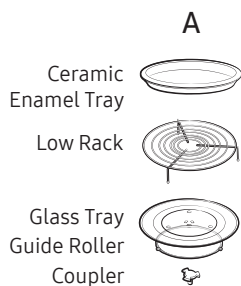
This feature offers a convenient way to increase cooking time. **+30sec** feature is only for manual cooking mode.



1. In standby mode, touching **+30sec** button will add 30 seconds of microwave mode at 100 % power. (Power level can not be changed in this way.)
2. If the oven is in manual cooking mode, touching **+30sec** button will add cooking time by 30 seconds.

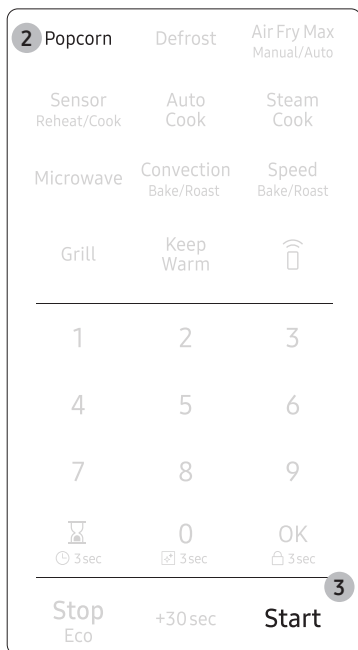
Operations

Accessory Combination Guide



Popcorn

You can cook popcorn easily using the **Popcorn** button. You do not need to set either the cooking time or the power level.



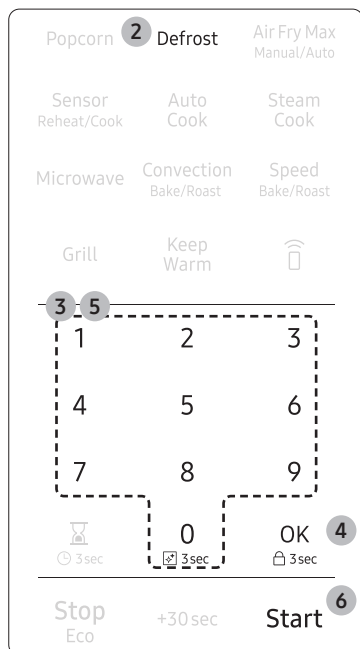
1. Put a bag of unpopped popcorn on the tray.
2. Touch the **Popcorn** button.
3. Touch the **Start** button.
Then the microwave oven will automatically be operated by sensing the popcorn inside. (2.0 - 3.5 oz.)

Operations

Defrost

Remove all packaging material before defrosting. Place meat, poultry, fish, bread, etc. on a turntable (glass tray).

General defrosting instructions:



1. Place the food on the turntable.
2. Touch the **Defrost** button.
3. To select the number that corresponds to the food you want to defrost, touch the **number pad**. (Refer to the table on the next page.)
4. Touch the **OK** button.
5. Enter the weight of the food by touching the **number pad**. (Refer to the table on the next page to see the weights you can enter.)
6. Touch the **Start** button.
The microwave oven will automatically operate for the pre-programmed time.

For specific instructions for different kinds of food, see the table below.

Cook No.	Food	Amount	Directions
1	Meat	0.1 - 6.0 lb 100 - 2700 g	Shield the edges with aluminium foil. Flip the meat when the oven beeps. This program is suitable for lamb, pork, steaks, chops, and ground meat. For ground meat, place the meat directly on the turntable tray on wax paper. Do not use an extra tray. Let stand, covered with foil, for 5 - 10 minutes.
2	Poultry	0.1 - 6.0 lb 100 - 2700 g	Shield the leg and wing tips with aluminium foil. Flip the poultry when the oven beeps. This program is suitable for whole chicken as well as for chicken portions.
3	Fish	0.1 - 6.0 lb 100 - 2700 g	Shield the tail of a whole fish with aluminium foil. Flip the fish when the oven beeps. This program is suitable for whole fish as well as for fish fillets.
4	Bread	0.1 - 2.0 lb 100 - 900 g	Put bread on a paper towel or place cake on a ceramic plate and if possible, flip as soon as the oven beeps. (The oven keeps operating and stops only when you open the door.) This program is suitable for all kinds of bread, sliced or whole, as well as for bread rolls and baguettes. Arrange bread rolls in a circle.

NOTE

Check food when the oven signals. After the final stage, small sections may still be icy. Let them stand to continue thawing. Food is not fully defrosted until all ice crystals have thawed. Shielding roasts and steaks with small pieces of foil prevents the edges from cooking before the center of the food has defrosted. Use narrow, flat, smooth strips of aluminum foil to cover the edges and thinner sections of the food.

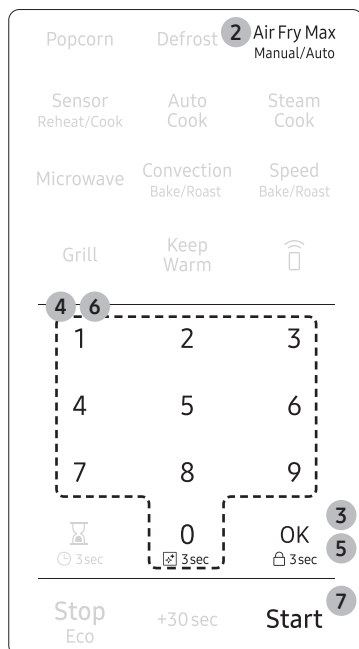
Operations

Air Fry Max Manual/Auto

The Air Fry Max mode uses hot air for crispier and healthier frozen foods without oil.

The microwave mode is not used.

You can set the temperature as required, in a range varying from 350°F to 425°F.

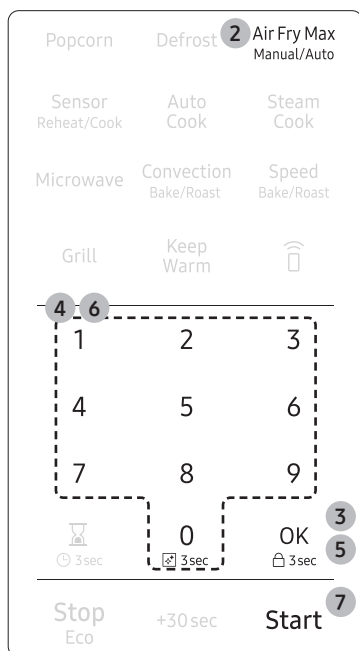


Manual Mode

1. Place the food on the tray or the rack. (See **Accessory Combination Guide** on page 26)
2. Touch the **Air Fry Max Manual/Auto** button once for Manual mode.
3. Touch the **OK** button.
4. To set the temperature, touch **number pad**. (350°F, 375°F, 400°F and 425°F are available.)
5. Touch the **OK** button.
6. Use the **number pad** to set a cooking time.
7. Touch the **Start** button to begin Air Fry Max cooking. If you want to add 30 seconds of cooking time, touch **+30sec** button. You can adjust the cooking time while the microwave oven in operation.

NOTE

- To maintain a constant temperature, keep the oven door closed while the food is cooking. Open as infrequently as possible.
- While operation the oven, if you want to change the temperature setting, touch the **OK** button, touch the **number pad** and then touch the **OK** button.



Auto Mode

1. Place the food on the tray or the rack. (See **Accessory Combination Guide** on page 26)
2. Touch the **Air Fry Max Manual/Auto** button twice for Auto mode.
3. Touch the **OK** button.
4. Use the **number pad** to select the number that corresponds to the food. (refer to the table on page 33.)
5. Touch the **OK** button.
6. Enter the amount of food by touching the **number pad** (1 or 2). (Refer to the table on page 33.)
7. Touch the **Start** button. The microwave oven will automatically operate for the pre-programmed time and temperature.

Operations

Example for Air Fry Max Auto operation

To set F2-4. Frozen tator tots with 2 servings for example, follow the instructions below.

Touch	Display shows
Popcorn Defrost 2 Air Fry Max Manual/Auto Sensor Auto Steam Reheat/Cook Cook Cook	START 9 Heat °F Filter OZ AM PM Lbs
1 2 3 2 4 5 6	START 9 Heat °F Filter OZ AM PM Lbs
3sec 0 OK 3 3sec 3sec Stop +30sec Start Eco	START 9 Heat °F Filter OZ AM PM Lbs
6 1 2 3 4 5 6	START 9 Heat °F Filter OZ AM PM Lbs
3sec 0 OK 3sec 3sec Stop +30sec Start 6 Eco	START 9 Heat °F Filter OZ AM PM Lbs

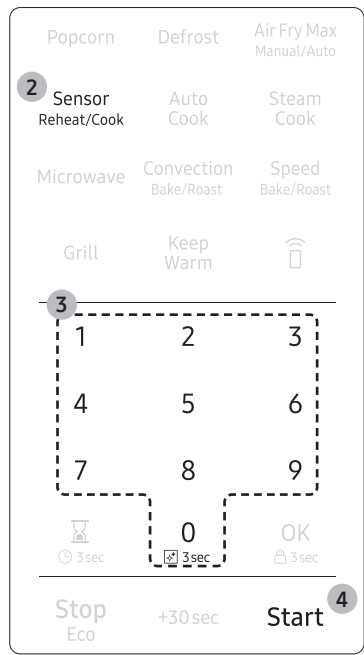
Time counting down

Cook No.	Food	Amount		Directions	Accessory Type
1	Frozen french fries	1	2 servings : 8 oz	Place frozen french fries on greased ceramic enamel tray. Put tray on high rack.	C / I
		2	4 servings : 16 oz		
2	Frozen hash brown patteis	1	2 servings : 4 ea	Place frozen hash brown patties on greased ceramic enamel tray. Put tray on high rack.	C / I
		2	4 servings : 8 ea		
3	Frozen potato wedges	1	2 servings : 8 oz	Place frozen potato wedges on greased ceramic enamel tray. Put tray on high rack.	C / I
		2	4 servings : 16 oz		
4	Frozen tator tots	1	2 servings : 8 oz	Place frozen tator tots on greased ceramic enamel tray. Put tray on high rack.	C / I
		2	4 servings : 16 oz		
5	Frozen chicken nuggets	1	1 serving : 8 oz	Place frozen chicken nuggets on greased ceramic enamel tray. Put tray on high rack.	C / I
		2	2 servings : 16 oz		
6	Frozen shrimp (breaded)	1	2 servings : 8 oz	Place frozen shrimp(breaded) on greased ceramic enamel tray. Put tray on high rack.	C / I
		2	4 servings : 16 oz		
7	Frozen chicken wings	1	1 serving : 8 oz	Place frozen chicken wings on greased ceramic enamel tray. Put tray on high rack.	C / I
		2	2 servings : 16 oz		
8	Drumsticks	1	1 serving : 12 oz	Place drumsticks on greased ceramic enamel tray. Put tray on high rack.	C / I
		2	2 servings : 24 oz		
9	Frozen onion rings	1	2 servings : 6 oz	Place frozen onion rings on greased ceramic enamel tray. Put tray on high rack.	C / I
		2	4 servings : 12 oz		

Operations

Sensor Reheat/Cook

The Sensor Cook mode lets you reheat and cook your favorite food using preset power levels and times. If the food is not thoroughly cooked after using the Sensor Cook feature, complete the cooking process by cooking the food for an additional amount of time.



1. Place the food on the tray or the rack. (See **Accessory Combination Guide** on page 26)
2. Touch the **Sensor Reheat/Cook** button once for REHEAT. Touch the **Sensor Reheat/Cook** button twice for COOK.
3. Use the **number pad** to select the number that corresponds to the food item. (refer to the table on page 38.)
4. Touch the **Start** button. The microwave oven will automatically operate for the pre-programmed time and temperature.

Sensor Reheat/Cook Cooking Guide

For specific instructions for different kinds of food, see the table below.

Sensor Reheat

Cook No.	Food	Amount	Directions	Accessory Type
1	Beverage	1/2 - 2 cup	Use a measuring cup or mug and do not cover. Place the beverage in the microwave oven. After heating, stir well. Let the oven cool for at least 5 minutes before using it again.	G

Cook No.	Food	Amount	Directions	Accessory Type
2	Sauce/soup	1 - 4 servings * 1/2 cup for 1 serving	Cover the plate with a lid or vented plastic wrap. If the food is not as hot as you would like after using the Sensor Cooking Reheat function, continue heating using additional time and power. Stir the food once before serving. Let the microwave oven cool for at least 5 minutes before using it again.	G
3	Casserole	1 - 4 servings * 8 oz for 1 serving	Cover the plate with a lid or vented plastic wrap. If the food is not as hot as you would like after using the Sensor Cooking Reheat function, continue heating using additional time and power. Stir the food once before serving. Let the microwave oven cool for at least 5 minutes before using it again. Contents: Casserole, refrigerated foods.	G
4	Pizza	1 - 4 slices	Place 1 - 4 pizza slices on a microwavesafe plate with the wide ends of the slices towards the outside edge of the plate. Do not let the slices overlap. Do not cover. Let the microwave oven cool for at least 5 minutes before using it again.	G

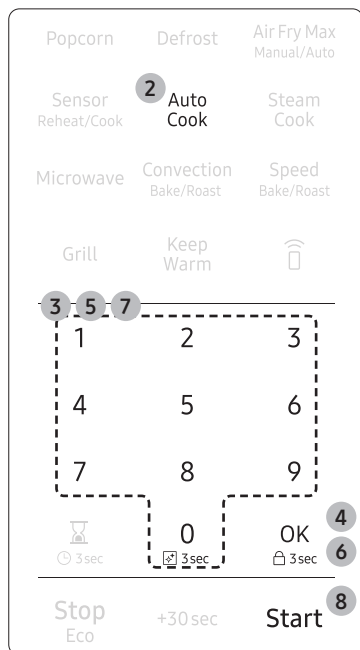
Sensor cook

Cook No.	Food	Amount	Directions	Accessory Type
1	Potato	1 - 6 ea * 8 - 10 oz for 1 ea	Pierce each potato several times with a fork. Place on the turntable in a spoke-like fashion. After cooking, let the potatoes stand for 3 - 5 minutes. Let the microwave oven cool for at least 5 minutes before using it again.	G
2	Fresh vegetable	1 - 4 servings * 1/2 cup for 1 serving	Place the fresh vegetables in a microwavesafe ceramic, glass, or plastic dish and add 2 - 4 tbs. of water. Cover with a lid or vented plastic wrap. Stir before letting stand. Let the microwave oven cool for at least 5 minutes before using it again.	G
3	Frozen vegetable	1 - 4 servings * 1/2 cup for 1 serving	Place the frozen vegetables in a microwave-safe ceramic, glass, or plastic dish and add 2 - 4 tbs. of water. Cover with a lid or vented plastic wrap to cook. Stir before letting stand for 3 - 5 minutes. Let the microwave oven cool for at least 5 minutes before using it again.	G
4	Chicken pieces	1/2 - 2 lb	Pierce the chicken pieces a few times with a knife. Place the chicken breasts on a microwave safe plate not overlap and cover with vented plastic wrap. Cook to an internal temperature of 165 °F. Let stand for 5 minutes.	G

Operations

Auto Cook

The Auto Cook menu contains pre-set cooking programs for 41 different items. You do not need to set the cooking times or the power level..



1. Place the food on the tray or the rack. (See **Accessory Combination Guide** on page 26)
2. Touch the **Auto Cook** button.
3. To select the number that corresponds to the category, touch the **number pad**. (Refer to the table that begins on page 38.)
4. Touch the **OK** button.
5. To select the number that corresponds to the food, touch the **number pad**. (Refer to the table that begins on page 38.) After selecting the food, if you do not need to set the amount, touch the **Start** button. If you need to set the amount, go to Step 6.
6. Touch the **OK** button.
7. Enter the amount of food by touching the **number pad**. (Refer to the table that begins on page 38.)
8. Touch the **Start** button. The microwave will automatically operate for the pre-programmed time.