



Microwave Oven

Item No: 900176



Model No. EM820ASJ
Item No. 900176
230-240Va.c. 50/60Hz
Rev 1

SAVE THESE INSTRUCTIONS

PRECAUTIONS TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY

- a) Do not attempt to operate this oven with the door open since this can result in harmful exposure to microwave energy. It is important not to break 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 sealing surfaces.
- c) **WARNING:** If the door or door seals are damaged, the oven must not be operated until it has been repaired by qualified service personnel.

SPECIFICATIONS

Model No.	EM820ASJ
Item No.	900176
Rated Voltage	230 - 240Va.c. 50/60Hz
Rated Input Power	1250W
Rated Output Power	800W
Oven Capacity	20L
Turntable Diameter	245mm
External Dimensions(L x W x H)	461 x 365 x 280mm
Net Weight	Approx. 11.4 kg

IMPORTANT SAFETY INSTRUCTIONS

WARNING To reduce the risk of fire, electric shock, injury to persons or exposure to excessive microwave oven energy when using your appliance, follow basic precautions, including the following:

- **WARNING:** Liquids or other foods must not be heated in sealed containers since they are liable to explode .
- **WARNING:** It is hazardous for anyone other than a trained person to carry out any service or repair operation which involves the removal of any cover which gives protection against exposure to microwave energy.
- **WARNING:** If the door or door seals are damaged, the oven must not be operated until it has been repaired by a trained person.
- **WARNING:** Only allow children to use the oven without supervision when adequate instructions have been given so that the child is able to use the oven in a safe way and understands the hazards of improper use.
- Children should be supervised to ensure that they do not play with the appliance
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety
- Metallic utensils or objects are not suitable for use in microwave ovens. Utensils should be checked to ensure that they are suitable for use in microwave ovens.
- The oven should be cleaned regularly and any food deposits should be removed.
- Read and follow the specific **“PRECAUTIONS TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY”**.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Do not store or use this appliance outdoors.
- Do not use this oven near water, in a wet basement or near a swimming pool.
- The temperature of accessible surfaces may be high when the appliance is operating. Keep cord away from heated surface, and do not cover any vents on the oven.
- Do not let cord hang over edge of table or counter.

- When heating food in plastic or paper containers, keep an eye on the oven due to the possibility of ignition.
- Eggs in their shell and whole hard-boiled eggs shall not be heated in microwave ovens since they may explode.
- Use this appliance only for its intended uses as described in manual. Do not use corrosive chemicals or vapours in this appliance. This oven is especially designed to heat. It is not designed for industrial or laboratory use.
- Remove wire twist-ties and metal handles from paper or plastic containers/bags before placing them in the oven.
- Failure to maintain the oven in a clean condition could lead to deterioration of the surface that could adversely affect the life of the appliance and possibly result in a hazardous situation.
- If smoke is observed, switch off or unplug the appliance and keep the door closed in order to stifle any flames.
- Do not overcook food.
- Install or locate this oven only in accordance with the installation instructions provided
- Do not use the oven cavity for storage purposes. Do not store items, such as bread, cookies, etc. inside the oven.
- The contents of feeding bottles and baby food jars are to be stirred or shaken and the temperature is to be checked before consumption, in order to avoid burns.
- Microwave heating of beverages can result in delayed eruptive boiling, therefore take care when handling the container.
- The microwave oven shall not be placed in a cabinet.

TO REDUCE THE RISK OF INJURY TO PERSONS

Grounding Installation

DANGER

Electric Shock Hazard Touching some of the internal components can cause serious personal injury or death.

Do not disassemble this appliance.

WARNING

Electric Shock Hazard Improper use of the grounding can result in electric shock.

Do not plug into an outlet until the appliance is properly installed and grounded.

This appliance **must be** grounded.

In the event of an electrical short circuit, grounding reduces the risk of electric shock by providing an escape path (earth wire) for the electric current.

This appliance is equipped with a cord having a grounding wire with a grounding plug (3 pins).

The plug must be plugged into an outlet that is properly installed and grounded.

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

Power Supply Cord

A short power-supply cord is provided to reduce the risks resulting from becoming entangled in, or tripping over a longer cord.

If it is necessary to use an extension cord, use only a 3-wire extension cord.

If a long cord set or extension cord is used:

- The marked electrical rating of the cord set or extension cord should be at least as great as the electrical rating of the appliance.
- The extension cord must be a grounding type 3-wire cord.
- The long 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 unintentionally.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

Cleaning

- Turn off the oven and remove the power plug from the wall socket before cleaning.
- Keep the inside of the oven clean. When food splatters or spilled liquids adhere to oven walls, wipe with a damp cloth. Mild detergent may be used if the oven gets very dirty.
- Avoid the use of spray and other harsh cleaners as they may stain, streak or dull the door surface.
- The oven door seal and adjacent parts should be wiped clean with a soft damp cloth, and a mild detergent if needed.
- The outside surfaces should be cleaned with a damp cloth.

- To prevent damage to the operating parts inside the oven, water and liquids should not be allowed to seep into the ventilation openings.
- Wipe the window on both sides with a damp cloth to remove any spills or splatters.
- Do not allow the control panel to become wet. Clean with a soft, damp cloth. When cleaning the control panel, leave the door open to prevent the oven from accidentally turning on.
- If steam accumulates inside or around the outside of the oven door, wipe with a soft cloth. This may occur when the microwave oven is operated under high humidity conditions. This is normal.
- It is occasionally necessary to remove the glass tray for cleaning. Wash the tray in warm sudsy water.
- The roller ring and the oven floor should be cleaned regularly to avoid excessive noise. Simply wipe the bottom surface of the oven with mild detergent. The roller ring may be washed in warm, sudsy water.
- When removing the roller ring from cavity floor for cleaning, be sure to replace it in the proper position.
- Remove odours from your oven by combining a cup of water with the juice and skin of one lemon in a deep microwave safe bowl, microwave for 5 minutes. Wipe thoroughly and dry with a soft cloth.

Utensils

See the instructions on "*Materials you can use in microwave ovens*" or "*Materials to be avoided in microwave ovens*"

There may be certain non-metallic utensils that are **not safe** to use for microwaving. If in doubt, you can test the utensil in question following the procedure below:

Utensil Test:

Fill a microwave-safe container with 1 cup of cold water (250ml) and place the utensil in question inside the microwave-safe container with the water.

Cook on maximum power for 1 minute.

Remove the container and **Carefully** feel the utensil. If the empty utensil is warm, **do not use** it for microwave cooking.

Important: Do not exceed 1 minute cooking time.

Materials you can use in microwave ovens

The ideal material for a microwave cooking utensil is transparent to microwaves as it allows energy to pass through the container and heat the food.

Round/oval dishes rather than square/oblong ones are recommended, as food in corners tends to overcook.

Browning Dish: Follow manufacturer's instructions. The bottom of browning dish must be at least 3/16 inch (5mm) above the turntable. Incorrect usage may cause the glass turntable to break.

Dinnerware: Microwave-safe only. Follow manufacturer's instructions. Do not use if cracked or chipped.

Glass Jars: Always remove lid. Use only to heat food until just warm. Most glass jars are not heat resistant and may break.

Glassware: Heat-resistant oven glassware only. Make sure there is no metallic trim. Do not use if cracked or chipped.

Oven Cooking Bags: Follow manufacturer's instructions. Do not close with a metal tie. Make slits in the bags to allow steam to escape.

Paper Plates: Use for short-term cooking/warming only. Do not leave oven unattended while cooking.

Paper Towels: Use to cover food for reheating and absorbing fat. Use with supervision for a short-term cooking only

Parchment: Use as a cover to prevent splattering or a wrap for steaming.

Plastic: Microwave-safe only. Follow the manufacturer's instructions. Should be labelled "Microwave Safe". Some plastic containers soften as the food inside gets hot.

Boiling Bags: and tightly closed plastic bags should be slit, pierced or vented as directed by package.

Thermometers: Microwave-safe only (meat and candy thermometers).

Wax Paper: Use as a cover to prevent splattering and retain moisture.

Plastic Wrap: Microwave-safe only. Use to cover food during cooking to retain moisture. Do not allow plastic wrap to touch food.

Materials to be avoided in microwave ovens

Microwaves **CANNOT** penetrate metal, so metal utensils or dishes with a metallic trim must not be used. Use of metal utensils will damage the microwave oven.

Food Carton:

May cause arcing. Transfer food into microwave-safe dish.

Aluminium Tray or Foil:

May cause arcing. Transfer food into microwave-safe dish

Metal or Metal Trimmed Utensils:

Metal shields the food from microwave energy. Metal or metal trimmed utensils may cause arcing.

Metal Twist Tie:

May cause arcing and could cause a fire in the oven.

Paper Bag:

May cause a fire in the oven.

Plastic Foam:

Plastic foam may melt or contaminate the liquid inside when exposed to high temperature and may cause a fire in the oven.

Wood:

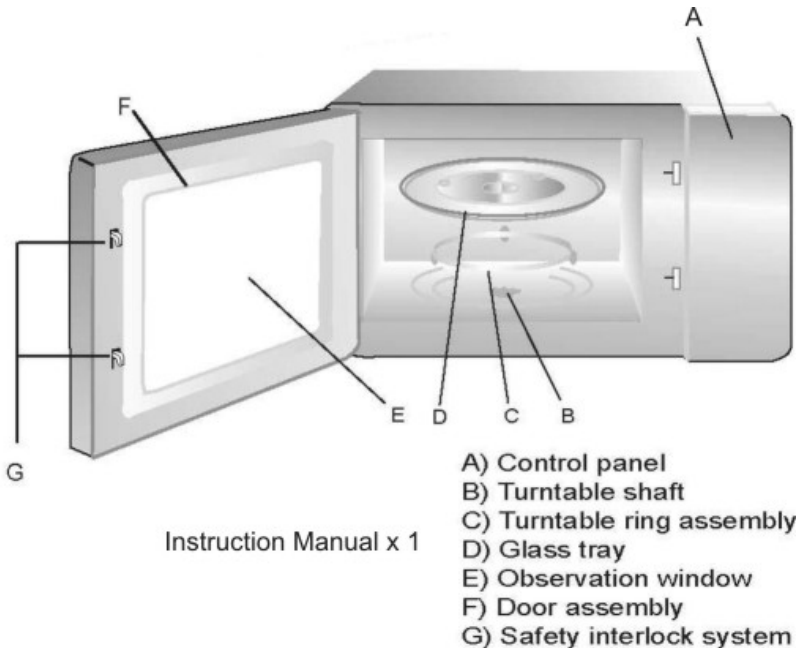
Wood will dry out when used in the microwave oven and may split or crack and may cause a fire in the oven

Do not use recycled paper products when microwave cooking, as they may contain small metal fragments which may cause sparks and/or fires.

Setting Up Your Oven

Names of Oven Parts and Accessories

Remove the oven and all materials from the carton and oven cavity. Your oven comes with the following accessories



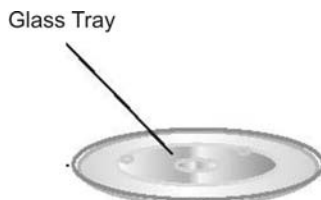
Turntable Installation

Never place the glass tray upside down. The glass tray should never be restricted from rotating.

Both the glass tray and turntable ring assembly must always be used during cooking.

All food and containers of food must always be placed on the glass tray for cooking.

If the glass tray or turntable ring assembly cracks or the turntable shaft breaks, contact H.E. Group's customer service (refer back page)



Countertop Installation

Remove all packing material and accessories.

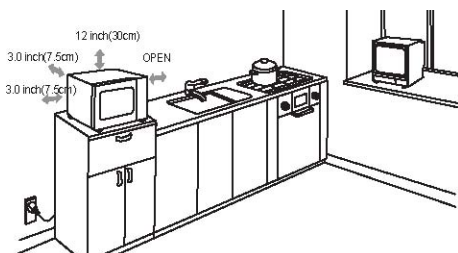
Cabinet: Remove any protective film found around the oven.

Examine the oven for any damage such as on the cabinet surface, dents or broken door.

Do not install if oven is damaged

Installation

Select a level surface that provides enough open space for the intake and/or outlet vents



Important:

A minimum clearance of 3.0 inches (7.5cm) is required between the oven and any adjacent walls.

One side must be open.

Leave a minimum clearance of 12 inches (30cm) above the oven.

Do not remove the legs from the bottom of the oven.

The microwave oven shall not be placed in a cabinet.

WARNING: Do not install oven over a range cook top or other heat-producing appliance.

If installed near or over a heat source, the oven could be damaged and the warranty would be void.

Blocking the intake and/or outlet openings can damage the oven.

Place the oven as far away from radios and TV as possible.

Operation of microwave oven may cause interference to your radio or TV reception.

Plug your oven into a standard household outlet.

Be sure the voltage and the frequency is the same as the voltage and the frequency on the rating label.

Operation Instructions

1. Clock Setting

When the microwave oven is electrified, the LED will display "0:00". The input time should be within 0:00--23:59; Example: To set 12:12

- (1) Press the "**CLOCK/PRE-SET**" button, the hour figures will flash, and the indicator for clock "🕒" will light.
- (2) Press the number buttons of "1", "2", "1", "2" in order.
- (3) Press "**CLOCK/PRE-SET**" to finish clock setting. The indicator for clock will go out, ":" will flash, and the time will light

Note: In the process of clock setting, if "**STOP**" is pressed or if there is no operation within 1 minute, the oven will go back to the previous status automatically.

2. Delay Start Example: to start a cooking at 12:12

- (1) Set the clock first. (Consult the instruction of clock setting)
- (2) Set the cooking program wanted (defrost should not be set here)
- (3) Press "**CLOCK/PRE-SET**" to display the current clock. The hour figures flash:
- (4) Press "1", "2", "1", "2"
- (5) Press "**START/SPEED COOK**" to confirm the setting. The unit will turn back to the clock state.
- (6) Cooks begin when the time arrives.

Note: If the setting is not within the range 0:00–23:59, the setting will be invalid

- In the process of setting, if "**STOP**" is pressed or there is no operation within 1 minute, the unit will go back to the previous state automatically.
- The clock must be set before the delay start cooking.
- If the pre-set cooking has not been programmed and only time to start cooking is set, the whole set will be regarded as an alarm clock setting and 5 beeps will be sound when the pre-set time is reached.

3. Microwave Cooking

Select a different microwave power level and set cooking time as you wish.

There are five power levels available for your choosing. Refer to Chart 1.

The maximum microwave cooking time is 99 minutes and 99 seconds.

Keep on pressing "**POWER LEVEL**" to choose the power level desired.

Microwave Power Chart

Press "Power level"	Microwave Power	Display
Once	100%	P100
Twice	80%	P80
Thrice	50%	P50
4 times	30%	P30
5 times	10%	P10

Example: Choose 50% power for cooking 10 minutes

1. Press "**POWER LEVEL**" thrice (three times).
2. Press the numeral buttons of "**1**", "**0**", "**0**", "**0**" in order.
3. Press "**START/SPEED COOK**" to start cooking, the time will count down.

4. Speedy Cooking

When the unit is in waiting state, pressing on **"START/SPEED COOK"** will start cooking at 30 seconds with 100% microwave power.

Each additional press will increase the cooking time by 30 seconds until the accrued time reaches 1 minute 30 seconds or less.

By then, each press will increase cooking time by 1 minute, the maximum cooking time is 12 minutes.

Example: Set 3 minutes speedy cooking

1. Press **"START/SPEED COOK"** once to start cooking, LED will display "0:30".
2. Press **"START/SPEED COOK"** again for 4 times, the cooking time will be 3 minutes.

5. Defrost By Weight

Example: Defrost beef of 500g

1. Press **"DEFROST BY WEIGHT"**, LED will display **"dEF1"**
2. Press **"5"**, **"0"**, **"0"** in order, **"g"** will light, the range of defrosting weight is 100g - 2000g
3. Press **"START/SPEED COOK"** to start defrosting, **"g"** will go out

6. Speedy Defrost

Example: Defrost beef of 500g

1. Press **"SPEED DEFROST"**, LED displays **"dEF2"**
2. Press **"5"** **"0"** **"0"** in order, **"g"** will light, the range of defrosting weight is 100g - 1200g
3. Press **"START/SPEED COOK"** to start defrosting, **"g"** will go out

Auto Menu Cooking

The numeral pads 1 — 9 are matched to nine different subjects respectively:

Pad	Display	Cook	Pad	Display	Cook	Pad	Display	Cook
1	A-1	Auto Reheat	4	A-4	Meat	7	A-7	Pizza
2	A-2	Vegetable	5	A-5	Pasta	8	A-8	Soup
3	A-3	Fish	6	A-6	Potato	9	A-9	Porridge

Example: Cook vegetable of 350g

1. Press **"VEGETABLE"** button
2. Press **"VEGETABLE"** button twice to choose weight, LED will display **"350"**
3. Press **"START/SPEED COOK"** to start cooking, **"g"** will go out, time counts down

Refer to the following table for the automatic menu procedure

Menu	Weight (g)	Display
A-1 Auto Reheat	150	150
	250	250
	350	350
	400	400
A-2 Vegetable	150	150
	350	350
	500	500
A-3 Fish	150	150
	250	250
	350	350
	400	400
	450	450
A-4 Meat	150	150
	300	300
	450	450
	600	600
A-5 Pasta	50 (with cold water 450g)	50
	100 (with cold water 800g)	100
	150 (with cold water 1200g)	150
A-6 Potato	1 (approximately 200g)	1
	2 (approximately 400g)	2
	3 (approximately 600g)	3
A-7 Pizza	1 (approximately 80g)	1
	2 (approximately 160g)	2
	3 (approximately 250g)	3
A-8 Soup	500	500
	750	750
	1000	1000
A-9 Porridge	550	550
	1100	1100

7. Inquiring Function

1. In cooking state, press "**POWER LEVEL**", the current power will be displayed for 3 seconds. After three seconds, the oven will turn back to the former state
2. In pre-set state, press "**CLOCK/PRE-SET**" to inquire the time for delay start cooking. The pre-set time will flash for 2-3 seconds, then the oven will turn back to the clock display
3. In cooking state, press "**CLOCK/PRE-SET**" to inquire the current time. The current time will flash for 2-3 seconds. Then turn back to the former state

8. Multi-section cooking

At most, 2 sections can be set for cooking. In multi-section cooking, if one section is weight defrosting, then weight defrosting shall be placed in the first section.

Note: Auto cooking cannot work in the multi-section cooking.

Example: If you want to cook the food with 100% microwave power for 10 minutes + 80% microwave power for 15 minutes. Do it as following

1. Press "**POWER LEVEL**" once to choose 100% microwave power.
2. Press number keys "**1**", "**0**", "**0**", "**0**" in order to adjust the cooking time.
3. Press "**POWER LEVEL**" twice to choose 80% microwave power.
4. Press number keys "**1**", "**5**", "**0**", "**0**" in order to adjust the cooking time.
5. Press "**START / SPEED COOK**" to start cooking.

9. Lock-out Function for Children

Lock: In waiting state, press "**STOP**" for 3 seconds, there will be a long beep denoting that the unit is now locked.

Lock Cancelling: In locked state, press "**STOP**" for 3 seconds, there will be a long "beep" denoting that the lock is released.

10. Cooking End Reminding Function

When cooking ends, there will be 5 beeps which indicates the completion of cooking.

11. Display Specification

1. In waiting state, LED will display clock and " : " will flash.
2. In function setting state, LED will display the related setting.
3. In the operation and suspending state, LED will display the residual cooking time.